SAMSUNG

E-MANUAL

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Model_____Serial No.____

To directly go to the page that provides instructions on how to use the manual for visually impaired users, select the Menu Learning Screen link below. "<u>Menu Learning Screen</u>" Link

Contents

Quick Guides

Connecting the Samsung Smart Remote to the TV

Using Smart Hub

Using the Ambient mode

- 10 Screen states related to Ambient mode
- 11 Changing the content and settings for Ambient mode

Using Voice Interaction

- 13 Running Voice Interaction
- 14 Learning about Voice Command Guide
- 15 Read Before Using Voice Interaction

Updating the TV's Software

- 16 Updating the TV's software to the latest version
- 16 Updating the TV automatically

Getting Support

- 17 Getting support through Remote Management
- 18 Finding the contact information for service
- 18 Requesting service

Connections

Connection Guide

Connecting an Antenna (Aerial)

Connecting to the Internet

- 21 Connecting to your Internet network
- 23 Checking the Internet connection status
- 23 Resetting Your Network
- 23 Turning on the TV with a Mobile Device
- 23 Connecting an IP control device to the TV
- 24 Setting up an Internet connection over IPv6
- 24 Changing the name of the TV on a network

Connecting to a Network via a Mobile Dongle (For India Only)

Troubleshooting Internet Connectivity Issues

26 Troubleshooting Internet connectivity issues

Connecting Video Devices

- 28 Connecting with an HDMI cable
- 29 Connecting with a component cable (Only for models with COMPONENT IN / AV IN)
- 30 Connecting with a composite cable (Only for models with COMPONENT IN / AV IN)

Audio Input and Output Connections

- 31 Connecting with an HDMI (ARC) cable
- 31 Connecting with a digital audio (optical) cable
- 31 Connecting through a wireless network
- 32 Connecting Bluetooth Devices

Connecting a Computer

32 Connecting through the HDMI port — Screen Sharing (HDMI)

Connecting Your Mobile Device

- 33 Connecting to the TV via the SmartThings app
- 34 Bidirectionally mirroring your TV and mobile device using the SmartThings app
- 34 Managing a Mobile Device
- 35 ADB (Auto Data Backup) functions (For India Only)

Switching between external devices connected to the TV

- 36 Changing the input signal
- 37 Editing the name and icon of an external device
- 38 Using additional functions

Connection Notes

- 38 Connection notes for HDMI
- 39 Connection notes for audio devices
- 40 Connection notes for computers
- 40 Connection notes for mobile devices

Remote Control and Peripherals

About the Samsung Smart Remote (QLED TV)

About the Samsung Smart Remote (UHD TV)

About the Samsung Smart Remote (THE FRAME)

Connecting the Samsung Smart Remote to the TV

Controlling External Devices with the Samsung Smart Remote - Using the Universal Remote

Using Anynet+ (HDMI-CEC)

52 Connecting an external device through Anynet+ and using their menus

Controlling the TV with a Keyboard or Mouse

- 53 Connecting a USB keyboard or mouse
- 53 Connecting a Bluetooth keyboard or mouse
- 54 Using the keyboard and mouse
- 55 Setting up the input devices

Entering Text using the On-Screen Virtual Keyboard

57 Entering Text using the remote control's microphone and the on-screen Virtual keyboard

Smart Features

Smart Hub

- 59 Displaying the Home Screen
- 64 Launching Smart Hub automatically
- 64 Launching the last used app automatically
- 64 Testing Smart Hub connections
- 64 Resetting Smart Hub

Using a Samsung account

- 65 Creating and managing your Samsung account
- 66 Signing in to a Samsung account

Using the Ambient mode

- 68 Screen states related to Ambient mode
- 69 Changing the content and settings for Ambient mode

Using the Apps Service

- 72 Installing and running an app
- 73 Managing purchased or installed apps
- 74 Rating apps

Using the Gallery App

Using the Universal Guide App

Using the SmartThings App

Using the e-Manual

- 78 Launching the e-Manual
- 79 Using the buttons in the e-Manual

Using the Internet

Playing pictures/video/music

81 Playing media content

Using Voice Interaction

- 82 Running Voice Interaction
- 83 Learning about Voice Command Guide
- 84 Read Before Using Voice Interaction

TV Viewing

Viewing Digital Broadcast Information at a Glance

85 Using the guide

Recording Programmes

- 87 Recording programmes
- 88 Managing the schedule recording list
- 89 Viewing recorded programmes
- 89 Setting up a schedule recording start

Setting Up a Schedule Viewing

- 89 Setting up a schedule viewing for a channel
- 90 Editing a schedule viewing

Using Timeshift

Buttons and functions available while recording a programme or Timeshift

Using the Channel List

Editing channels

- 94 Removing registered channels
- 94 Editing registered channels

Creating a Personal Favourites List

- 95 Registering channels as favourites
- 95 Viewing and selecting channels on Favourites lists only

Editing a Favourites List

- 96 Adding channels to favourites list
- 96 Removing channels from a favourites list
- 96 Rearranging a favourites list
- 96 Renaming a favourites list

TV-Viewing Support Functions

- 97 Changing the broadcast signal
- 97 Scanning for available channels
- 97 Checking digital channel signal info and strength
- 98 Restricting Viewing to Specific Channels
- 98 Selecting the broadcasting audio option
- 98 Using Programme Rating Lock
- 98 Configuring advanced broadcasting settings
- 99 Selecting the broadcast audio language
- 99 Tuning broadcast signals manually
- 100 Fine-tuning analogue broadcasts
- 100 Transferring channel list
- 101 Enabling/Disabling Edit Channel Numbers
- 101 Changing teletext language
- 101 Showing TVkey Interface menu

Picture and Sound

Adjusting the Picture Quality

- 102 Choosing a picture mode
- 103 Configuring advanced picture settings

Setting the Viewing Environment for External Devices

- 104 Playing games on an optimised screen
- 105 Configuring game mode details
- 106 Viewing UHD videos
- 106 Using HDMI black level

Picture Support Functions

- 107 Changing the picture size
- 107 Changing the picture size automatically
- 107 Changing the picture size in 4:3 or Screen Fit mode
- 108 Fitting the picture to the screen
- 108 Adjusting the picture size and/or position

Configuring a Sound Mode and Expert Settings

- 108 Choosing a sound mode
- 109 Configuring advanced sound settings

Using the Sound Support Functions

- 110 Selecting speakers
- 110 Listening to the TV through Bluetooth devices
- 111 Listening to the TV through a Samsung audio device that supports the Wi-Fi function

System and Support

Using the Time Functions and the Timers

- 112 Setting the current time
- 113 Using the timers

Using the Auto Protection Time and Energy Saving Functions

- 114 Setting the Auto Protection Time
- 114 Reducing the energy consumption of the TV

Updating the TV's Software

- 115 Updating the TV's software to the latest version
- 115 Updating the TV automatically

Protecting the TV from Hacking and Malicious Code

116 Scanning the TV and connected storage for malicious code

Using Other Functions

- 116 Running the accessibility functions
- 116 Running Accessibility Shortcuts
- 117 Enabling voice guides for the visually impaired
- 117 Audio Description
- 118 White text on black background (high contrast)
- 118 Setting the screen to a black and white tone
- 118 Inverting the screen colour
- 118 Enlarging the font (for the visually impaired)
- 118 Learning about the remote control (for the visually impaired)
- 119 Learning about the TV menu
- 119 Watching TV broadcasts with subtitles
- 120 Listening to the TV through Bluetooth devices (for the hearing impaired)
- 120 Configuring advanced system settings
- 121 Restoring the TV to the factory settings

HbbTV

Teletext Feature

- 123 On the Samsung Smart Remote
- 125 On the standard remote control
- 126 Typical Teletext page

Troubleshooting

Getting Support

- 127 Getting support through Remote Management
- 128 Finding the contact information for service
- 128 Requesting service
- Diagnosing TV operational issues
- There Is a Problem with the Picture
 - 129 Testing the picture
- I Can't Hear the Sound Clearly
 - 132 Testing the sound
- There Is a Problem with the Broadcast
- My Computer / Game Console Won't Connect
- The TV Won't Connect to the Internet
- The Schedule Recording/Timeshift Function Isn't Working
- Anynet+ (HDMI-CEC) Isn't Working
- I Have Trouble Launching/Using Apps
- My File Won't Play
- I Want to Reset the TV
- Other Issues

Precautions and Notes

Before Using the Recording and Timeshift Functions

- 140 Before using the recording and schedule recording functions
- 142 Before using the timeshift function

Supported broadcasting audio options

Read Before Using Apps

Read Before Using the Internet

145 Read before setting up a wireless Internet connection

Read Before Playing Photo, Video, or Music Files

- 146 Limitations on use of photo, video, and music files
- 147 Supported external subtitles
- 147 Supported internal subtitles
- 148 Supported image formats and resolutions
- 148 Supported music formats and codecs
- 149 Video codecs supported by Q900R model series
- 150 Video codecs supported by NU7100 model series or higher
- 151 Video codecs supported by NU7090 model series or lower

Read After Installing the TV

- 153 Picture sizes and input signals
- 154 Installing an anti-theft lock

Supported Resolutions for UHD Input Signals

- 154 If HDMI UHD Color is set to Off
- 154 If HDMI UHD Color is set to On

Resolutions for 8K Input Signals supported by Q900R model series

- 155 If HDMI UHD Color is set to On
- Supported Resolutions for FreeSync

Read Before Connecting a Computer (Supported Resolutions)

- 156 IBM
- 156 MAC
- 157 VESA DMT
- 158 VESA CVT
- 158 CTA-861

Supported Resolutions for Video Signals

- 159 CTA-861
- 160 VESA CVT

Read Before Using Bluetooth Devices

161 Restrictions on using Bluetooth

Buttons and functions available while playing multimedia content

Licence

Accessibility Guidance

Menu Learning Screen

Using the Remote control

- 167 Orientation of the Samsung Smart Remote
- 167 Description of the Samsung Smart Remote

Using the accessibility menu

- 169 Accessibility Shortcuts menu
- 170 Step by Step instructions to run the options
- 172 Setting accessibility settings using Voice Interaction

Using the TV with Voice Guide on

173 Watching TV

Using the guide

Setting Up a Schedule Viewing

178 Cancelling a scheduled viewing

Using the Channel List

181 Creating a Personal Favourites List

Recording

- 183 Using the instant and schedule recording options from the guide screen:
- 184 Using the Instant and Schedule Recording options from the programme info window
- 184 Changing the recording time
- 185 Viewing recorded programmes
- 185 Deleting a recorded programme

Using Smart Hub

- 186 Smart Hub
- 187 Using the Home Screen in Smart Hub

Launching the e-Manual

Using Voice Interaction

192 Running Voice Interaction

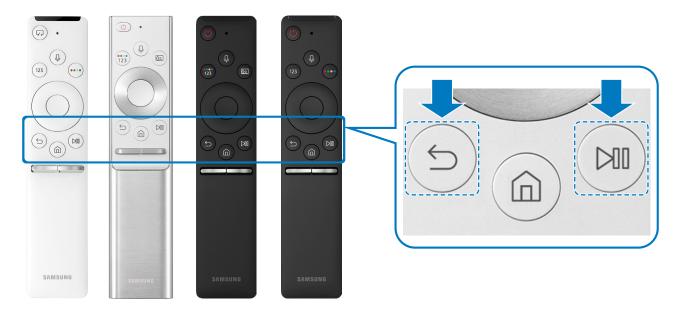
Quick Guides

You can learn quickly how to run and use the frequently used functions, such as Voice Interaction, Ambient mode, and Smart Hub.

Connecting the Samsung Smart Remote to the TV

Connect the Samsung Smart Remote to your TV to operate the TV.

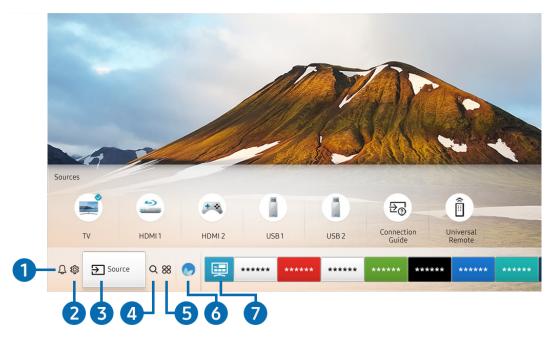
When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the \bigcirc and \bigcirc buttons simultaneously for 3 seconds or more.



- 🖉 The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- For more information about the Samsung Smart Remote that comes with the QLED TV, refer to "<u>About the Samsung Smart</u> <u>Remote (QLED TV)</u>".
- For more information about the Samsung Smart Remote that comes with the UHD TV, refer to "<u>About the Samsung Smart</u> <u>Remote (UHD TV)</u>".
- For more information about the Samsung Smart Remote that comes with THE FRAME TV, refer to "About the Samsung Smart Remote (THE FRAME)".
- 🖉 The Samsung Smart Remote may not be supported depending on the model or geographical area.

Using Smart Hub

Connect to Smart Hub for apps, games, movies, and more.



Enjoy the multiple functions provided by **Smart Hub** simultaneously on a single screen.

🥒 The image on your TV may differ from the image above depending on the model and geographical area.

When you press the following functions and features.

↓ Notification

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

For more information, refer to "<u>Displaying the Home Screen</u>".

2 Settings

When the focus is moved to the 🛱 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

3 → Source

You can select an external device connected to the TV.

For more information, refer to "Switching between external devices connected to the TV".

4 Q Search

You can search for channels, programmes, movie titles, and apps from Smart Hub.

🖉 To use this feature, the TV must be connected to the Internet.

5 88 APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "<u>Using the Apps Service</u>".

🌀 💿 Ambient mode

In Ambient mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient mode, press the 🖾 button. To return to the TV mode, press the 🍙 button. To shut off the TV, press the 🌰 button.

If you press the 🖾 button when the TV is turned off, the TV turns on in Ambient mode.

- 🖉 If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient mode.
- 🖉 Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the Ambient mode, refer to "<u>Using the Ambient mode</u>".

🚺 📃 Universal Guide

Universal Guide is an app that allows you to search for and enjoy various content such as TV shows, dramas, and movies in one place. **Universal Guide** can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the Universal Guide, refer to "Using the Universal Guide App".
- 🖉 Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

₽Art

When you are not watching TV or when the TV is turned off, you can use the Art mode function to edit image content such as artworks or photos or to display the content.

- 🧷 This function is supported only in THE FRAME model.
- 🖉 For more information, refer to the provided user manual.

Using the Ambient mode

Learn about the functions available in Ambient mode, which is a QLED TV-specific function.

Ambient mode

In Ambient mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient mode, press the 🔯 button. To return to the TV mode, press the 🍙 button. To shut off the TV, press the 🕐 button.

If you press the 🖾 button when the TV is turned off, the TV turns on in Ambient mode.

- 🖉 If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient mode.
- 🖉 Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- 🖉 🛛 To activate the 🐼 and 🖫 menus, first select a content item in Ambient mode.

Screen states related to Ambient mode

• Ambient mode

In Ambient mode, you can set up and enjoy visual information and design. In this state, less power is consumed and brightness is automatically adjusted by the illuminance sensor.

• Getting dark state

In Ambient mode, the TV screen changes automatically according to the surroundings. When the surroundings get dark, the TV screen becomes darker. When the surroundings get bright before the TV screen turns completely black or when the remote control or the Voice Interaction function is operated, the TV screen returns to Ambient mode.

🖉 You can change the auto brightness setting for Ambient mode by using 😳 in the Ambient mode browser screen.

In this state, the TV is ready to process voice guides and voice commands.

• Black screen state

In Ambient mode, if the surroundings get to a specific level of darkness, the TV turns soft-off. To turn the screen back on in Ambient mode, press the 🔯 button on the remote control.

- 🖉 You can change the auto brightness setting for **Ambient mode** by using 🕸 in the **Ambient mode** browser screen.
- In this state, the TV cannot process voice guides and voice commands.
- TV off state

To enter Ambient mode when the TV is turned off, press the 🔯 button on the remote control. To enter TV mode when the TV is turned off, press the 🕜 button. In TV mode, you can watch broadcasts or enjoy the content on the external devices connected.

Changing the content and settings for Ambient mode



🥒 The image on your TV may differ from the image above depending on the model and geographical area.

When you press the 🖾 or 🕤 button in Ambient mode, the Ambient mode browser screen appears. In the Ambient mode browser screen, you can select content and change the Ambient mode settings.

Setting up the content for Ambient mode

The Ambient mode browser screen displays content at the top and categories at the bottom. Use the left or right directional buttons in the content list at the top to move the focus to content you want, and then press the Select button. The selected content is played in Ambient mode.

In the future, more content that you can set up in the Ambient mode browser will be provided.

You can select the following categories and content:

- Décor: Provides beautiful screens.
- Info: Provides information such as weather, news headlines, and more.
 - This function may not be supported depending on the geographical area.
- Photo: Allows you to set a picture stored in your mobile device as the wallpaper of the Ambient mode screen. You can configure special layouts with your photos.
 - To save photos from your mobile device to the TV and import them in **Ambient mode**, use the SmartThings app on your mobile device.

Setting up the Ambient mode details

In the Ambient mode browser screen, move the focus to 🕄, and then press the Select button. You can change the following settings:

- Brightness: Adjust the screen brightness for Ambient mode.
- Colour Tone: Adjust the colours of the screen for Ambient mode.
- Auto Brightness: Change the auto brightness setting for Ambient mode.
 - When this function is set to **Off**, the brightness level of the TV screen is not automatically adjusted according to the ambient light level.
 - This function may not be supported depending on the model.
- Ambient Off Timer: Set the time that the Ambient mode screen turns off automatically.
 - If there is no remote control input for the set time, the screen goes off. To turn the screen back on in Ambient mode, press the button on the remote control.

Changing the background colour of Ambient mode

To change the background colour of Ambient mode, move the focus to $\frac{1}{2}$ in the Ambient mode browser screen, and then press the Select button. You can change the background colour or pattern. Move the focus to a colour or pattern you want, and then press the Select button.



Take a picture of a wall using the SmartThings app on your mobile device to set it as the background of **Ambient mode**. This function may have a delay in image transmission and optimisation depending on the network conditions.

Using Voice Interaction

Speak into the microphone on your Samsung Smart Remote to control your TV.

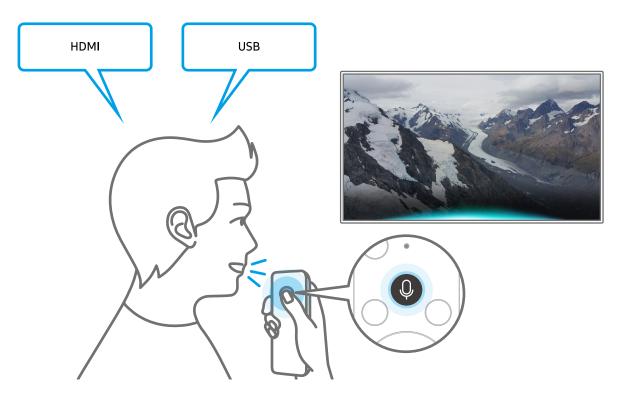
- This function may not be supported depending on the model or geographical area.
- 🖉 The supported language may differ depending on the geographical area.

Running Voice Interaction

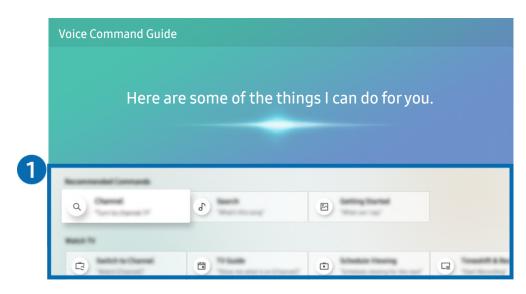
Press and hold the D button on your Samsung Smart Remote, say a command, and then release the D button. The TV recognises the voice command.

To view the Voice Interaction guide, press the 🕕 button once:

- When you press the 🕖 button for the first time, the Using Voice Interaction button appears at the bottom of the screen. Press the Select button. The Using Voice Interaction popup window appears and a tutorial on using Voice Interaction is shown.
- When you press the 🕖 button, the Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.



Learning about Voice Command Guide



🖉 The image on your TV may differ from the image above depending on the model and geographical area.

1 Voice Command Guide

You can learn the voice commands to use the **Voice Interaction** in various situations. Use the directional buttons to move to the desired command, and then press the Select button. You can operate the TV with various voice commands.

To view a tutorial on Voice Interaction, use the directional buttons to move to the bottom, and then select the View Tutorial item.

Read Before Using Voice Interaction

Precautions for Voice Interaction

- The supported voice interaction languages and features may differ depending on the geographical area.
- If the language set differs from the language of your country, some features are not available.
- Voice Interaction is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Voice Interaction server error.
- The existing functional specifications may be changed if Voice Interaction is updated.
- Voice Interaction is available only on TVs that support it and come with remote controls that have a microphone.
- Symbols including "-" and special characters are not supported. Consequently, if a word or sentence contains numeric values or symbols, the function may not operate properly.
- Searched results may not provide complete results.
- You may be required to pay for some apps. Consequently, you may encounter a service application or contract.
- To change the current channel by saying channel names as voice commands, you must finish Set Up Your Service Provider. If Set Up Your Service Provider is not completed, you can complete it using the following menu.

– M > 1 Settings > General > Start Setup (Try Now)

- To use the voice text input function and Smart search function, you must consent to provisions allowing third parties to collect and use your voice data.
- To use the Voice Interaction function, you must:
 - Agree to Smart Hub's Terms of Use
 - Agree to a guidance regarding the collection and use of personal information for the Smart Hub service.
 - Consent to the collection and use of personal information for the voice interaction-based service.

Requirements for using Voice Interaction

- The voice interaction rate differs with the volume/tone, pronunciation, and ambient sound environment (TV sound and ambient noise).
- The optimal volume for voice commands is between 75 dB and 80 dB.

Updating the TV's Software

View your TV's software version and update it if necessary.

Settings > Support > Software Update (ry Now)

Updating the TV's software to the latest version

▲ DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. Video and audio settings will be reset to their defaults after a software update.

Updating through the Internet

ð

Settings > Support > Software Update > Update Now (ry Now)

Updating from the Internet requires an active Internet connection.

Updating through a USB device

Settings > Support > Software Update > Update Now

After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the TV to update.

To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.

Updating the TV automatically

Settings > Support > Software Update > Auto update (ry Now)

If the TV is connected to the Internet, you can have the TV update its software automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

If you agree to the Smart Hub terms and conditions, Auto update is set to On automatically. If you want this function disabled, use the Select button to turn it off.



This function requires an Internet connection.

Getting Support

Get help directly from Samsung if you have a problem with your TV.

Getting support through Remote Management

> 🕸 Settings > Support > Remote Management (ry Now

After consenting to our service agreement, you can use **Remote Management** to access Remote Support and have a Samsung service technician diagnose your TV, correct problems, and update your TV's software remotely via the web. You can also turn **Remote Management** on and off.

- 🧷 This function requires an Internet connection.
- You can also start this function by pressing and holding the 庙 button for 5 or more seconds.

What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely:

- Diagnose your TV
- Adjust the TV settings for you
- Perform a factory reset on your TV
- Install recommended firmware updates

How does Remote Support Work?

You can easily get Samsung Remote Support service for your TV:

- 1. Call the Samsung Contact Centre and ask for remote support.
- 2. Open the menu on your TV and go to the Support section. ()> 🕸 Settings > Support)
- 3. Select **Remote Management**, then read and agree to the service agreements. When the PIN screen appears, provide the PIN number to the technician.
- 4. The technician will then access your TV.

Finding the contact information for service

Settings > Support > About This TV (TY NOW)

You can view the address of the Samsung website, the call centre phone number, your TV's model number, your TV's software version, Open Source Licence and other information you may need to get service support from a Samsung call agent or the Samsung website.



- You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the button for 5 or more seconds. For standard remote control, press and hold the (Play) button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

Requesting service

Settings > Support > Request Support (ry Now)

You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, and then select **Request Now** or **Schedule Appointment** > **Request** > **Send**. Your service request will be registered. The Samsung Contact Centre will contact you to set up or confirm your service appointment.

- 🖉 This function may not be supported depending on the geographical area.
- 🖉 You must agree to the terms and conditions for the service request.
- This function requires an Internet connection.

Connections

You can watch live broadcasts by connecting an antenna and antenna cable to your TV and can get access to the Internet by using a LAN cable or wireless router. Using various connectors, you can also connect external devices.

Connection Guide

You can view detailed information about external devices that can be connected to the TV.

It guides you the way to connect various external devices such as the cable box, game console, and PC through pictures. If you select the connection method to an external device, the information details appear.

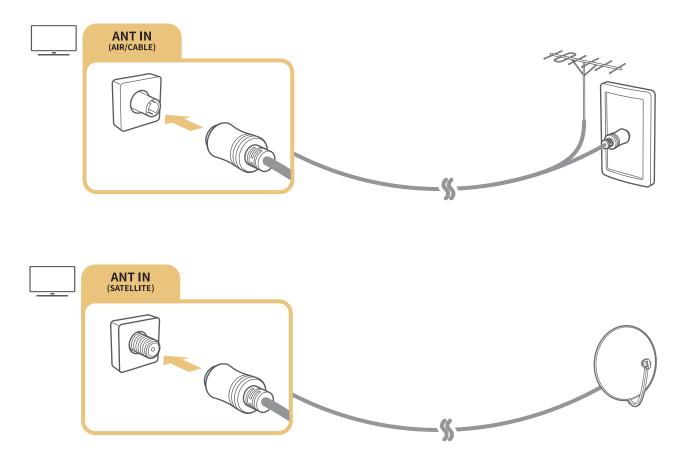
Connection Guide	
Cable Box/Disc Player	HDMI
💌 Game Console	
PC	
Audio device	
Mobile Device	
External Storage	
Accessory	

🧷 The image on your TV may differ from the image above depending on the model and geographical area.

Connecting an Antenna (Aerial)

You can connect an antenna cable to your TV.

An antenna connection is not necessary if you connect a cable box or satellite box.



Depending on the model or geographical area.

Connecting to the Internet

You can get access to the Internet through your TV.

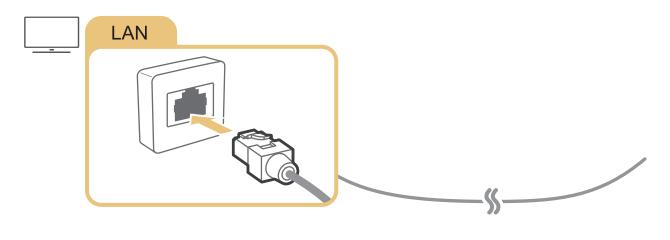
Connecting to your Internet network

Settings > General > Network > Open Network Settings (Try Now)

Connect to an available network.

Establishing a wired Internet connection

If you connect a LAN cable, the TV automatically accesses the Internet.



Use a CAT7 (*STP type) cable for the connection.
 * Shielded Twist Pair

The TV will not be able to connect to the Internet if your network speed is below 10 Mbps.

Establishing a wireless Internet connection

) Settings > General > Network > Open Network Settings > Wireless

Make sure that you have the wireless router's SSID (name) and password settings before attempting to connect. The network name (SSID) and security key are available on the wireless router's configuration screen. See the wireless router's user manual for more information.



The image on your TV may differ from the image above depending on the model and geographical area.

If no wireless router is found, select Add Network at the bottom of the list and enter the network name (SSID).

If your wireless router has a WPS or PBC button, select Use WPS at the bottom of the list, and then push the WPS or PBC button on your router within 2 minutes. The TV will connect automatically.

Checking the Internet connection status

Settings > General > Network > Network Status (ry Now)

View the current network and Internet status.

Resetting Your Network

Settings > General > Network > Reset Network (ry Now)

Restore the network settings to the factory defaults.

Turning on the TV with a Mobile Device

You can turn on the TV using a mobile device connected to the same network as the TV.

Connecting an IP control device to the TV

Settings > General > Network > Expert Settings > IP Remote

You can connect an IP control device to the TV remotely to manage your IP device.

- 🖉 To use this function, Power On with Mobile must be turned on.
- Turning this feature on may allow other IP control devices to control your TV. We recommend turning this feature on only if an authorised third-party custom controller is installed and configured specifically for a Samsung TV and if your Wi-Fi network is password protected.
- 🖉 This function may not be supported depending on the model or geographical area.

Setting up an Internet connection over IPv6

Configuring the IPv6 connection settings



Settings > General > Network > Expert Settings > IPv6

🖉 This function may not be supported depending on the model or geographical area.

Checking an Internet connection set up over IPv6

Settings > General > Network > Expert Settings > IPv6 Status

This function may not be supported depending on the model or geographical area.

Changing the name of the TV on a network

You can change the name of the TV on the network. Select User Input at the bottom of the list and change the name.

Connecting to a Network via a Mobile Dongle (For India Only)

Make network connection by connecting a mobile dongle to the TV.

You can make the TV to connect to a network via a mobile device by connecting a mobile dongle to the TV. Connect the mobile dongle to the USB port that are marked as Dongle in the TV.

- 🧪 This function is not available on certain models in specific geographical areas.
- When you use a large mobile dongle(Data Card), USB devices may not work properly due to interferences among the USB ports, or the wireless network may not work properly due to interferences from the peripherals and surroundings. In this case, use a USB extension cable to connect a large mobile dongle to a USB port.
- Channel-Bound Apps is not available when you set up mobile network.
- 🖉 If you have any problems using online services, please contact your Internet service provider.



The mobile service providers and their devices that support this function are as follows:

- Airtel (Model No: E3276S, E3276s-920, E8231)
- Idea (Model No: E1732, E8231)
- Tata Docomo (Model No: E177, E8231)
- Open Dongles (Airtel, Idea, TataDocomo, Aircel, Vodafone) (Model No: E303C, E303U, E3121B, E3131B, E8221)

Troubleshooting Internet Connectivity Issues

If your TV won't connect to the Internet, try the solutions below.

Troubleshooting Internet connectivity issues (TV Now

After reading the following content, troubleshoot the Internet connection issue. If the problem persists, contact your Internet Service Provider.

No network cable found

Make sure that the LAN cable is plugged in on both ends. If it is plugged in, make sure that the router is turned on. If the router is on, try turning it off and then on.

Wireless network connection failed

If a selected wireless router is not found, go to Open Network Settings, and then select the correct router.

– m > 1 Settings > General > Network > Open Network Settings

Unable to connect to a wireless router

- 1. Check if the router is turned on. If it is, turn it off and then on.
- 2. Enter the correct password if required.

IP auto setting failed

- 1. Configure the settings in IP Settings.
 - (n) > (3) Settings > General > Network > Network Status > IP Settings
- 2. Make sure that the DHCP server is enabled on the router, and then unplug the router and plug it back in.
- 3. Reset the router if required.
 - For wireless connection, enter the correct password if required.

Unable to connect to the network

- 1. Check all IP Settings.
- 2. After checking the DHCP server status (must be active) on the router, remove the LAN cable, and then connect it again.
 - For wireless connection, enter the correct password if required.

Connected to a local network, but not to the Internet

- 1. Make sure that the Internet LAN cable is connected to the router's external LAN port.
- 2. Check the DNS values in IP Settings.
 - (n) > (2) Settings > General > Network > Network Status > IP Settings

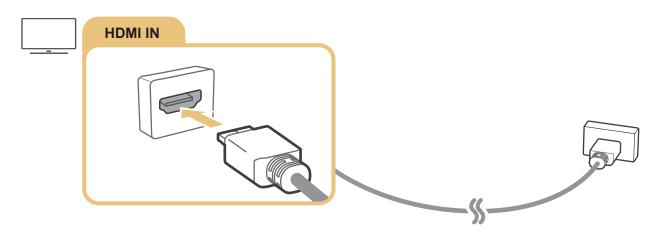
Network setup is complete, but unable to connect to the Internet

If the problem persists, contact your Internet Service Provider.

Connecting Video Devices

Make the correct video connections between your TV and your external devices.

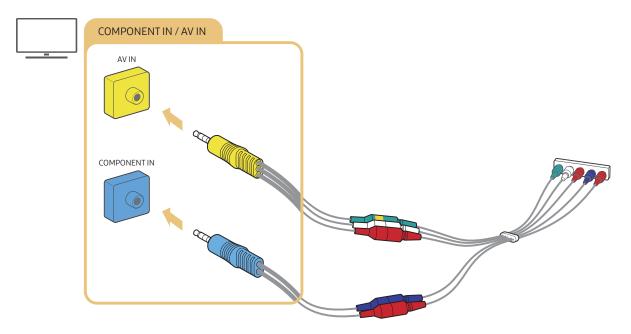
Connecting with an HDMI cable



Connecting with a component cable (Only for models with COMPONENT IN / AV IN) $% \left(\mathcal{A}^{\prime} \right) = \left(\mathcal{A}^{\prime} \right) \left(\mathcal{A}^{\prime}$

A Component connection lets you enjoy video resolutions up to 1080p. To watch video from most DVD and Blu-ray players, use the Component connection.

Review the illustration below, and then connect Component IN and AV IN on the TV to Component OUT on the external device by using the provided component and AV adaptors. Make sure to connect the same colour connectors together. (blue to blue, yellow to yellow, etc.)

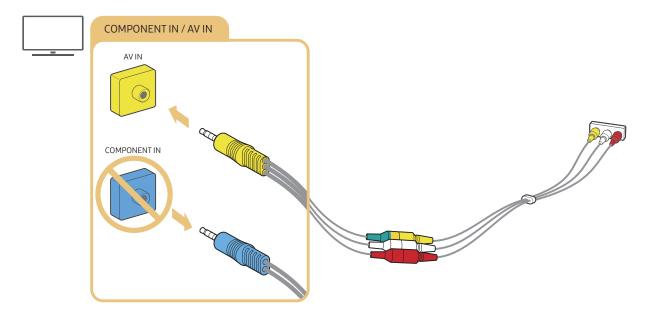


🖉 To use component equipment, connect both the component adapter (blue) and the AV adapter (yellow).

Connecting with a composite cable (Only for models with COMPONENT IN / AV IN) $% \left(\mathcal{A}^{\prime} \right) = \left(\mathcal{A}^{\prime} \right) \left(\mathcal{A}^{\prime}$

Through the AV connection, you can enjoy the resolution up to 576i.

Review the illustration below, and then connect AV IN on the TV to AV OUT on the external device by using the provided composite cable and AV adaptor. When connecting the cables, be sure to match the colours of the cables to the colours of the ports.



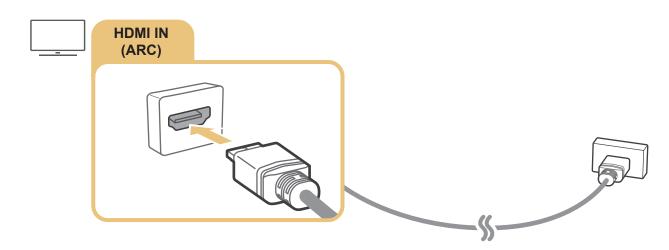
🖉 Connect AV (composite) equipment to AV In only. Do not connect to Component In.

Audio Input and Output Connections

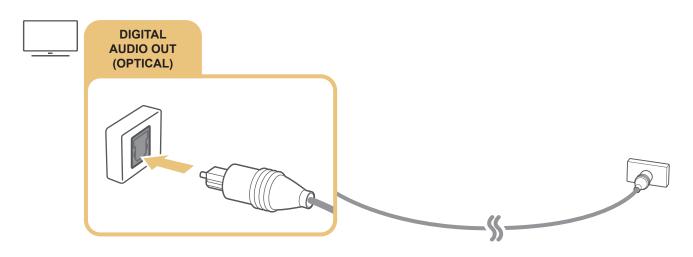
Make the correct audio connections between your TV and your external devices.

For more information about how to select external speakers, refer to "Selecting speakers".

Connecting with an HDMI (ARC) cable



Connecting with a digital audio (optical) cable



Connecting through a wireless network

You can connect the TV to a Samsung audio device that supports the Wi-Fi function through your wireless network. The two devices must be connected to the same network. For more information about how to connect and use a Samsung audio device that supports the Wi-Fi function, refer to its user manual.

Connecting Bluetooth Devices

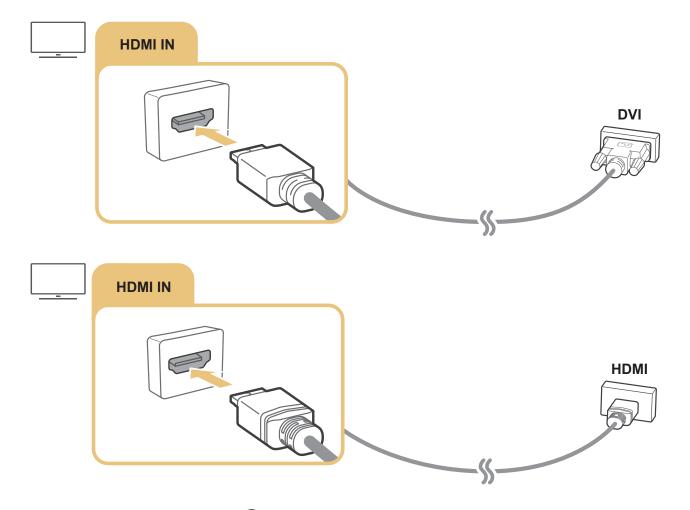
For more information about how to connect and use external speakers, refer to the Connection Guide (\bigcirc > \bigcirc Source > Connection Guide > Audio device > Bluetooth) and their user manuals.

🖉 This function may not be supported depending on the model or geographical area.

Connecting a Computer

Use the TV as a computer monitor or connect the TV to a computer via your network and access the computer's content.

Connecting through the HDMI port — Screen Sharing (HDMI)



When you have connected a PC, go to (a) > > Source, and then select the PC icon from the external device icon list. For more information about the port settings, refer to "Editing the name and icon of an external device".

Connecting Your Mobile Device

Connect your mobile device to the TV on the same network to control the TV with the mobile device or enjoy the content of the mobile device on the TV.

Use the SmartThings app on your mobile device to quickly and easily connect to the TV and control its main settings. In addition, you can remotely check and control the statuses of various devices such as Samsung smart devices, home appliances, and speakers registered to the server.

- Make sure that your TV supports SmartThings. You can check it with the Supported Devices menu in the SmartThings app.
- 🖉 To use the SmartThings app, you must be signed in to your Samsung account on the TV.
- This function may not be supported depending on the TV model or mobile device.
- 🖉 The supported functions may differ depending on the version of the SmartThings app.

You can install the SmartThings app from App Store or Google Play Store.

Connecting to the TV via the SmartThings app

- 1. Turn on the TV.
- 2. Start the SmartThings app on your mobile device.
- 3. Tap Add Device on the dashboard of the SmartThings app. Connectable TVs are searched for.
- 4. From the search results, select the model of your TV.
- 5. Enter the PIN number displayed on the TV screen.

Once the TV is registered with your Samsung account, you can use the SmartThings app to control the TV.

- 🖉 If your TV is not found on your mobile device, turn both of them off and on, and then try again.
- If you have more than one TV, you can easily select the TV you want by setting different TV names at System Manager > Device Name.

Bidirectionally mirroring your TV and mobile device using the SmartThings app

Bidirectional mirroring refers to either outputting the same screen and sound of a mobile device on a TV or outputting the same screen and sound of a TV on a mobile device. You can use the SmartThings app to enjoy the screen and sound of the TV on your mobile device or to play the screen and sound of your mobile device on the TV.

Start the SmartThings app on your mobile device. Tap your TV from the dashboard or device. You can use the following functions:

- You can enjoy the screen and sound of the mobile device on your TV.
 - After you connect a mobile device that supports screen mirroring to your TV, you can use screen mirroring to enjoy the screen and sound of the mobile device on your TV wirelessly and play the video, audio, or photo files currently playing on the mobile device on your TV.
- You can enjoy TV screen and sound on your mobile device.
- You can only listen to the TV sound on your mobile device.
- You can add a new device through the SmartThings app on your mobile phone. Please refer to the user guide in the SmartThings app for more details.
- This function may not be supported depending on the TV model or mobile device.
- The supported functions may differ depending on the version of the SmartThings app.
- If there is no TV found, try again after turning both off and on.
- If you have multiple TVs, assign a different name to each TV in (2000) >

Managing a Mobile Device



• Access Notification

Set whether to display a notification when a mobile device attempts to connect to the TV.

• Device List

View, edit, or remove a list of mobile devices registered to the TV.

ADB (Auto Data Backup) functions (For India Only)

Your mobile device comes close to the TV, the ADB (Auto Data Backup) feature backs up your mobile data such as images and videos into a pre-configured specific folder on a USB storage device or an external hard disk drive connected to the TV. You can also transfer files from the ADB (Auto Data Backup) folder to a Samsung mobile device over Wi-Fi Direct.

• Transferring data from a mobile device to the TV

Your mobile device comes close to the TV, images and videos are copied from your mobile device to a USB storage device or an external hard disk drive connected to the TV.

• Transferring data from the TV to a mobile device

You can select and transfer files from the ADB (Auto Data Backup) folder on the TV to a Samsung mobile device.

How to Use ADB (Auto Data Backup)

1 ADB (Auto Data Backup) Registration

First, register the TV using the USB Backup app, and then select a USB storage device or an external hard disk drive connected to the TV. The ADB (Auto Data Backup) folder is automatically created on the selected storage device. Then, select folders from your mobile device's gallery, set the password to open the ADB (Auto Data Backup) folder on the selected storage device connected to the TV.

2 Auto File Copy

When your mobile device comes close to the TV, data are automatically copied from the selected folders on your mobile device to the selected storage device connected to the TV.

3 Share files back from the ADB folder to a mobile device

You can also share file back from ADB folder to Samsung Mobile, by first connecting Samsung Mobile with TV over Wi-Fi direct & then select the files to be transferred from TV, and press "Share" option to send files to connected Mobile device.

Switching between external devices connected to the TV

You can switch between TV programmes and the content of external devices.

Changing the input signal

When you select a connected external device on the **Source** screen, the output of the selected device is displayed on the TV's screen.

On the standard remote control, press the SOURCE button.

- To control a device (Blu-ray player, game console, etc.) that supports universal remote control with the TV's remote control, connect the device to an HDMI port on the TV, and then turn on the device. Lets you switch to the output of the device automatically or lets you configure universal remote control for the device automatically. To configure the device for universal remote control automatically, point the TV's remote control at the device.
- When a USB device is connected to the USB port, a pop-up message appears that lets you switch easily to the media content listed on the device.
- 🖉 This function may not be supported depending on the device and geographical area.

Editing the name and icon of an external device

You can change the port name for a connected external device or add it to Home Screen.

- The image on your TV may differ from the image above depending on the model and geographical area.
- 1. Move the focus to a connected external device.
- 2. Press the Up directional button. The following functions become available.
 - 🖉 🛛 Available functions may differ depending on the port type.

1 Universal Remote

You can control external devices connected to the TV using the Samsung Smart Remote. To control external devices, register them by following the instructions on the screen.

- 🖉 This function may not be supported depending on the model or geographical area.
- For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".

2 Edit

You can rename the input ports and change the device icons.

3 Information

You can view the detailed information about the external devices connected to the TV.

4 Add to Home

You can add the port of an external device to the Home Screen for quick switching.

Using additional functions

You can use the following features on the Source screen.

- Connection Guide: The guide to device connections
- Universal Remote: The function that lets you register external devices to your Samsung Smart Remote and control them using the standard remote control.
 - ${\mathscr I}$ This function may not be supported depending on the model or geographical area.
 - For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal <u>Remote</u>".

Connection Notes

When connecting an external device, note the following.

- 🖉 The number of connectors and their names and locations may differ with the model.
- Refer to the external device's operating manual when connecting it to the TV. The number of external device connectors and their names and locations may differ with the manufacturer.

Connection notes for HDMI

- The following types of HDMI cables are recommended:
 - High-Speed HDMI Cable
 - High-Speed HDMI Cable with Ethernet
- Use an HDMI cable with a thickness of 0.66 inches (17 mm) or less.
- Using a non-certified HDMI cable may result in a blank screen or a connection error.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- This TV does not support HDMI Ethernet Channel. Ethernet is a Local Area Network (LAN) built with coaxial cables standardised by the IEEE.

- Use a cable shorter than 10 feet (3 m) to get the best UHD contents viewing quality.
- Many computer graphics adaptors do not have HDMI ports, but have DVI ports instead. If your PC does not support HDMI video out, connect your PC with an HDMI-DVI cable.
- For One Connect supported models, when the TV is connected to an external device such as a DVD/BD player or a set-top box via HDMI, power sync mode will be automatically activated. In this power sync mode, the TV continues to detect and connect external devices via HDMI cable. This function can be deactivated by removing HDMI cable of connected device.

Connection notes for audio devices

- For better audio quality, it is a good idea to use an AV receiver.
- If you connect an external audio device using an optical cable, the **Sound Output** setting is automatically changed to the connected device. However, to make this happen, you must turn on the external audio device before connecting the optical cable. To manually change the **Sound Output** setting, do one of the following:
 - Use the **Quick Settings** screen to change to the connected device:

Use the Select button to select Audio Out/Optical on the Sound Output menu. (>	诊 Settings >	• up
directional button > Sound Output).			

– Use the Settings screen to change to the connected device:

Select Audio Out/Optical on the Sound Output menu. (> 🕸 Settings > Sound > Sound Output).

- An unusual noise coming from a connected audio device while you are using it may indicate a problem with the audio device itself. If this occurs, ask for assistance from the audio device's manufacturer.
- Digital audio is only available with 5.1 channel broadcasts.

Connection notes for computers

- For the resolutions supported by the TV, refer to "<u>Read Before Connecting a Computer (Supported</u> <u>Resolutions)</u>".
- As long as file sharing is activated, unauthorised access may occur. When you do not need to access data, disable file sharing.
- If you want to connect your PC and TV wirelessly, both of them must be connected to each other on the same network.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

Connection notes for mobile devices

- To use the Smart View function, the mobile device must support a sharing function such as Screen Mirroring or Smart View. To check whether your mobile device supports the sharing function, refer to the mobile device's user manual.
- To use Wi-Fi Direct, the mobile device must support the Wi-Fi Direct function. To check whether your mobile device supports Wi-Fi Direct function, refer to the mobile device's user manual.
- The mobile device and your Smart TV must be connected to each other on the same network.
- The video or audio may stop intermittently, depending on network conditions.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

Remote Control and Peripherals

You can control TV operations with your Samsung Smart Remote. Pair external devices such as a keyboard for ease of use.

About the Samsung Smart Remote (QLED TV)

Learn about the buttons on the Samsung Smart Remote that comes with the QLED TV.



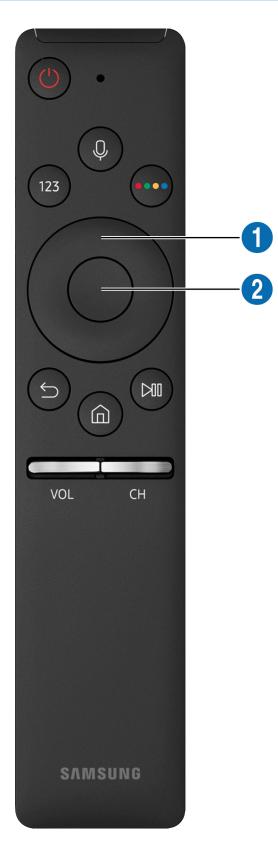
Button	Description
(Voice Interaction)	Runs Voice Interaction. Press and hold the button, say a command, and then release the button to run Voice Interaction. When you press the button, the Enter Voice Command Guide menu appears at the bottom of
	the screen.
	The supported languages and features for voice interaction may differ depending on the geographical area.
(Colour / Number button)	Each time you press this button, the coloured buttons window and the virtual numeric pad are displayed alternately.
	• Use these coloured buttons to access additional options that are specific to the feature in use.
	• Press to bring up the virtual numeric pad on the screen. Use the numeric keypad to enter numeric values. Select numbers and then select Done to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.
	When you press the 123 button and then select TTX/MIX from the pop-up list, the TTX menu appears. For more information, refer to " <u>Teletext Feature</u> ".
	If the colour button appears with a number strip on the screen, select the colour button and then select a specific colour by using the directional pad (up/down/left/right). Use this to access additional options that are specific to the feature in use.
(Ambient mode)	In TV mode, press the button to enter Ambient mode.
(Ambient mode)	If you press the button when the TV is turned off, the TV turns on in Ambient mode.
 Directional pad (up/ down/left/right) 	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching content, detailed programme information appears.

Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
VOL (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
CH (Channel)	Move the button up or down to change the channel. To see the Guide or Channel List screen, press the button.
	Press and hold the button up or down to quickly change the channel.

- Use the Samsung Smart Remote less than 6 m from the TV. The usable distance may vary with the wireless environmental conditions.
- 🖉 The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- To use the Samsung Smart Remote to control a compatible external device that does support HDMI-CEC (Anynet+), connect the device to an HDMI port on the TV using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- 🖉 This function may not be supported depending on the model or geographical area.

About the Samsung Smart Remote (UHD TV)

Learn about the buttons on the Samsung Smart Remote that comes with the UHD TV.



Button	Description
(Voice Interaction)	Runs Voice Interaction. Press and hold the button, say a command, and then release the button to run Voice Interaction.
	When you press the button, the Enter Voice Command Guide menu appears at the bottom of the screen.
	The supported languages and features for voice interaction may differ depending on the geographical area.
123 (Number button)	When pressed, the virtual numeric pad appears on the screen so that you can enter a numeric value using it.
	Select numbers and then select Done to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.
	When you press the 123 button and then select TTX/MIX from the pop-up list, the TTX menu appears. For more information, refer to "Teletext Feature".
(Colour button)	When pressed, coloured buttons appear on the screen. Use these coloured buttons to access additional options specific to the feature you are using.
Directional pad (up/ down/left/right)	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching content, detailed programme information appears.

Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
VOL (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
CH (Channel)	Move the button up or down to change the channel. To see the Guide or Channel List screen, press the button.
	Press and hold the button up or down to quickly change the channel.

- Use the Samsung Smart Remote less than 6 m from the TV. The usable distance may vary with the wireless environmental conditions.
- 🖉 The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- To use the Samsung Smart Remote to control a compatible external device that does support HDMI-CEC (Anynet+), connect the device to an HDMI port on the TV using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- 🖉 This function may not be supported depending on the model or geographical area.

About the Samsung Smart Remote (THE FRAME)

Learn about the buttons on the Samsung Smart Remote that comes with the THE FRAME TV.



Button	Description
(POWER)	When watching TV, press to switch to Art mode. In Art mode, press to switch to watching TV. Press and hold to turn off the TV completely.
(Voice Interaction)	 Runs Voice Interaction. Press and hold the button, say a command, and then release the button to run Voice Interaction. When you press the button, the Enter Voice Command Guide menu appears at the bottom of the screen. The supported languages and features for voice interaction may differ depending on the geographical area.
123 (Number button)	 When pressed, the virtual numeric pad appears on the screen so that you can enter a numeric value using it. Select numbers and then select Done to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc. When you press the 123 button and then select TTX/MIX from the pop-up list, the TTX menu appears. For more information, refer to "Teletext Feature".
(Colour button)	When pressed, coloured buttons appear on the screen. Use these coloured buttons to access additional options specific to the feature you are using.
Directional pad (up/ down/left/right)	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching content, detailed programme information appears.

Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
VOL (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for1 second or more, the Accessibility Shortcuts appears.
CH (Channel)	Move the button up or down to change the channel. To see the Guide or Channel List screen, press the button. Press and hold the button up or down to quickly change the channel.

Use the Samsung Smart Remote less than 6 m from the TV. The usable distance may vary with the wireless environmental conditions.

The images, buttons, and functions of the Samsung Smart Remote may differ with the model.

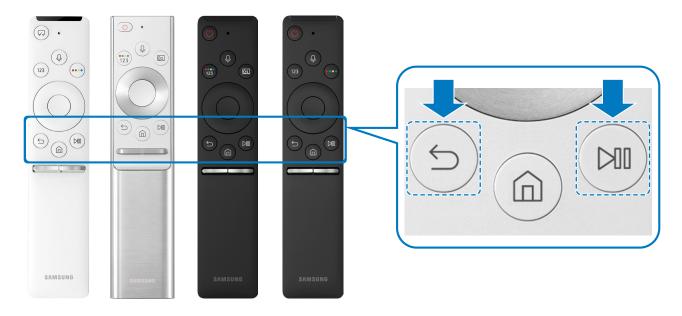
🧷 The Samsung Smart Remote may not be supported depending on the model or geographical area.

- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- To use the Samsung Smart Remote to control a compatible external device that does support HDMI-CEC (Anynet+), connect the device to an HDMI port on the TV using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- 🖉 This function may not be supported depending on the model or geographical area.

Connecting the Samsung Smart Remote to the TV

Connect the Samsung Smart Remote to your TV to operate the TV.

When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the \bigcirc and \bigcirc buttons simultaneously for 3 seconds or more.



- 🖉 The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- 🧨 The Samsung Smart Remote may not be supported depending on the model or geographical area.

Controlling External Devices with the Samsung Smart Remote -Using the Universal Remote

Control the TV and connected external devices with the Samsung Smart Remote.

You can control external devices connected to the TV using the Samsung Smart Remote. To control external devices, register them by following the instructions on the screen.

- This function may not be supported depending on the model or geographical area.
- Vou can also use the Anynet+ (HDMI-CEC) function to operate external Samsung devices with your TV's remote control without any additional setup.
- 🖉 Certain external devices connected to the TV may not support the universal remote feature.
- Do not place any obstacles in front of an external device. It may cause signals from the remote control to be transmitted improperly.
- The TV memorises both the external device and its connection port (HDMI 1, HDMI 2, etc.).
- For models that came with One Connect, if you have difficulty in controlling external devices with the Universal Remote, try adjusting the positions of the One Connect and the external devices.

Using Anynet+ (HDMI-CEC)

Control an external device connected via Anynet+ (HDMI-CEC) with the remote control.

You can use the TV's remote control to control external devices that are connected to the TV by an HDMI cable and that support Anynet+ (HDMI-CEC). Note that you can only set up and operate Anynet+ (HDMI-CEC) with the remote control.

Connecting an external device through Anynet+ and using their menus

Settings > General > External Device Manager > Anynet+ (HDMI-CEC) (Try Now)

- 1. Set Anynet+ (HDMI-CEC) to On.
- 2. Connect an HDMI-CEC-compliant device to the TV.
- 3. Turn on the connected external device. The device is automatically connected to the TV. After connection is finished, you can access the menu of the connected device using your TV remote and control the device.
- The connecting process can take up to 2 minutes to complete.

Read before connecting an Anynet+ (HDMI-CEC) device

- Anynet+ (HDMI-CEC)-enabled devices must be connected to the TV with an HDMI cable. Note that some HDMI cables may not support Anynet+ (HDMI-CEC).
- You can configure the TV's Universal Remote to control third-party cable boxes, Blu-ray players, and home theatres that do not support HDMI-CEC. For more information, refer to "<u>Controlling External Devices with the Samsung Smart Remote -</u><u>Using the Universal Remote</u>".
- Anynet+ cannot be used to control external devices that do not support HDMI-CEC.
- The TV remote control may not work under certain circumstances. If this occurs, set up the device as an Anynet+ (HDMI-CEC)-enabled device again.

- Anynet+ (HDMI-CEC) works only with external devices that support HDMI-CEC and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 compliant external devices (up to 3 of the same type) except for home theatres. Anynet+ (HDMI-CEC) can control only one home theatre system.
- To listen to 5.1 channel audio from an external device, connect the device to the TV via an HDMI cable and connect a 5.1 home theatre system directly to the external device's digital audio output connector.
- If an external device has been set up for both Anynet+ and a universal remote control, the device can be controlled only with the universal remote control.

Controlling the TV with a Keyboard or Mouse

Connecting a keyboard or mouse to make it easier to control the TV.

Settings > General > External Device Manager > Input Device Manager (Ty Now)

You can connect a keyboard or mouse to make it easier to control the TV.

Connecting a USB keyboard or mouse

Plug the keyboard or mouse cable into the USB port.

🥒 If you connect a mouse, it is available only in the Internet app.

Connecting a Bluetooth keyboard or mouse

Settings > General > External Device Manager > Input Device Manager > Bluetooth Device List

- 🖉 This function may not be supported depending on the model or geographical area.
- If your device was not detected, position the keyboard close to the TV, and then select **Refresh**. The TV scans for available devices again.
- If you connect a mouse, it is available only in the **Internet** app.

Using the keyboard and mouse

Button	Description
Directional keys	Moves the focus
Windows key	Displays the TV settings
Enter key	Selects or runs a focused item
ESC key	Returns to the previous screen
F1 / F2 / F3 / F4 key	Colour buttons — 📕 / 🔜 / 📕
F5 key	Displays the Home Screen
F6 key	Displays the Source screen
F7 key	Displays the Channel List
F8 key	Mutes the sound
F9 / F10 key	Adjusts the volume
F11 / F12 key	Changes the channel
Page Up / Page Down	Scrolls a web page displayed on the Internet app.
Left-click	Available only in the Internet app. You can click a menu or link to start a function as you do on a PC.
Right-click	 Available only in the Internet app. You can use the following functions: The options displayed on the menu may differ depending on the selected item. Open Open Link in New Tab Enable Scroll Mode

The key operations may differ on some apps.

Setting up the input devices

Setting up the keyboard

Settings > General > External Device Manager > Input Device Manager > Keyboard Settings

You can set up the keyboard with the following functions:

- Keyboard Language
- Keyboard type

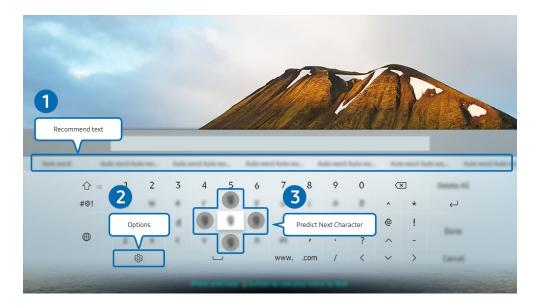
Setting up the mouse

You can set up the mouse with the following functions:

- Primary Button
- Pointer Speed

Entering Text using the On-Screen Virtual Keyboard

Use the Virtual keyboard to enter text on your TV.



🤌 The image on your TV may differ from the image above depending on the model and geographical area.

Recommend text

When you type a word you want to search for, this function shows related suggestions from which you can choose one.

2 Options

Select 🕸 on the Virtual keyboard screen. The following options are available:

- The options available may differ depending on the function running currently.
- Recommend text
- Reset Recommended Text Memory
- Predict Next Character (when using direction buttons)
- Language

3 Predict Next Character

Each time you type a character on the Virtual keyboard, the next characters predicted to be typed are displayed, and you can use the directional buttons on the remote control to select one from them.

Entering Text using the remote control's microphone and the on-screen Virtual keyboard

When the Virtual keyboard is on the screen, press and hold the O button on the Samsung Smart Remote, speak into the microphone on the Samsung Smart Remote, and then release the button. What you say appears on the screen as text.

🖉 This function may not be supported depending on the model or geographical area.

Smart Features

You can enjoy various apps with Smart Hub.

Smart Hub

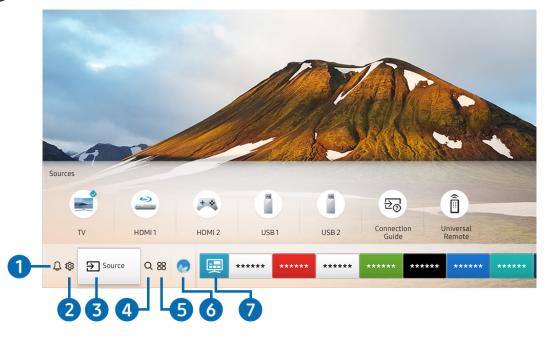
View descriptions of Smart Hub's basic functions.

From Smart Hub, you can use the Internet search function, install and use various apps, view photos and videos or listen to music stored on external storage devices, and perform more functions.

- Some of the Smart Hub services are paid services.
- 🖉 To use Smart Hub, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language, or geographical area.
- Smart Hub service outages can be caused by disruptions in your Internet service.
- To use Smart Hub, you must agree to the Smart Hub service agreement, and collection and use of personal information.
 Without giving consent, you cannot use the additional features and services. You can view the entire text of the Terms & Policy document by navigating to \$\$ Settings > Support > Terms & Policy. (ry Now)
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement though it is a required one, select Reset Smart Hub (Settings > Support > Self Diagnosis > Reset Smart Hub).

Displaying the Home Screen

Press the 🝙 button.



🥒 The image on your TV may differ from the image above depending on the model and geographical area.

On the Home Screen, you can easily run the apps you have used previously or frequently. The apps can also be moved or deleted from the screen.

↓ Notification

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

If you move the focus to **Notification**, and then press the Select button, a notification window appears on the right and the following functions are available:

• 🔟 Delete All

You can delete all your notifications.

- 🕄 Settings
 - You can select services you want to be notified about.
 - When you select Allow sound, notifications are displayed with a notification sound.

2 ⁽²⁾ ⁽³⁾ Settings

When the focus is moved to the 😥 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

• Picture Mode

You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Picture Setup**.

• Sound Mode

You can select a sound mode to optimise your listening experience. To change the sound mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Equaliser Setup**.

• Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select 3 Speaker List.

Connecting to a Bluetooth speaker may not be supported depending on the model or geographical area.

Game Mode

You can enable game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation[™] or Xbox[™]. To turn **Game Mode** on or off, press the Select button. To set the detailed options, press the up directional button, and then select **Go to Game Mode Settings**.

• Audio Language

You can change the audio language you want to hear. To make fine adjustments, press the up directional button, and then select **Go to Audio Options**.

Subtitle

You can watch TV broadcasts with subtitles. To activate/deactivate the Subtitle function, press the Select button. To run Accessibility Shortcuts, press the up directional button, and then select Accessibility Shortcuts.

Sleep Timer •

You can automatically shut off the TV after a pre-set period of time.

To set the sleep time to up to 180 minutes, press the select button. To make detail off timer, press the up directional button, and then select **Set Up Off Timer**.



This function may not be supported depending on the model or geographical area.

Network

You can view the current network and Internet status. Press the up directional button, and then select Network Status or Network Settings.

- Ì Pressing 🐼 Settings displays all setting menus available.
- Ì This function may not be supported depending on the model or geographical area.

$3 \rightarrow Source$

You can select an external device connected to the TV.

For more information, refer to "Switching between external devices connected to the TV".

4 Q Search

You can search for channels, programmes, movie titles, and apps from Smart Hub.

Ĩ To use this feature, the TV must be connected to the Internet.

5 88 APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.



For more information, refer to "Using the Apps Service".

🌀 💿 Ambient mode

In Ambient mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient mode, press the 🖾 button. To return to the TV mode, press the 🍙 button. To shut off the TV, press the 🕐 button.

If you press the 😡 button when the TV is turned off, the TV turns on in Ambient mode.

- 🖉 If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient mode.
- 🖉 Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the Ambient mode, refer to "<u>Using the Ambient mode</u>".

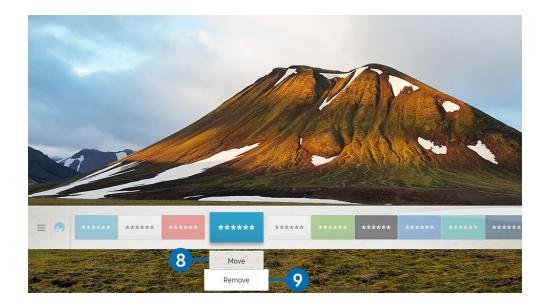
🕜 📃 Universal Guide

Universal Guide is an app that allows you to search for and enjoy various content such as TV shows, dramas, and movies in one place. Universal Guide can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the **Universal Guide**, refer to "<u>Using the Universal Guide App</u>".
- 🖉 Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

When you are not watching TV or when the TV is turned off, you can use the Art mode function to edit image content such as artworks or photos or to display the content.

- This function is supported only in THE FRAME model.
- For more information, refer to the provided user manual.



🖉 The image on your TV may differ from the image above depending on the model and geographical area.

8 Moving an item on the Home Screen

Move the focus to the app you want to move, press the down directional button on the remote control, and then select Move. Move the app to the desired position by pressing the left or right directional button, and then press the Select button. The selected app is moved on the Home screen.

9 Removing an item on the Home Screen

Ĩ

Move the focus to the app you want to delete, press the down directional button on the remote control, and then select **Remove**. The selected app is deleted.

You can add the apps you want to use often to the Home Screen using APPS. To add your favourite apps to the Home Screen, refer to "<u>Managing purchased or installed apps</u>".

Launching Smart Hub automatically

Settings > General > Smart Features > Autorun Smart Hub (Try Now)

When you set Autorun Smart Hub to On, the TV displays the Home Screen automatically when you turn the TV on. You can also turn on or off this function, use the Select button.

Launching the last used app automatically

Settings > General > Smart Features > Autorun Last App (ry Now)

If Autorun Last App is set to On, the last used app is automatically run when you turn on the TV. You can also turn on or off this function, use the Select button.

This function may not be supported depending on the app.

Testing Smart Hub connections

> 🕸 Settings > Support > Self Diagnosis > Start Smart Hub Connection Test (ry Now

Resetting Smart Hub

Settings > Support > Self Diagnosis > Reset Smart Hub (Try Now)

You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. The default PIN is "0000". You can set the PIN in Settings > General > System Manager > Change PIN.

Using a Samsung account

Create and manage your own Samsung account.

Settings > General > System Manager > Samsung Account (ry Now)

Creating and managing your Samsung account

- You can view the entire text of the Terms and Privacy Policy in Settings > General > System Manager > Samsung Account > My Account > Terms & Conditions, Privacy Policy after logging in to your Samsung account.
- You can also create a Samsung account at http://account.samsung.com. Once you have an account, you can use the same ID on both the TV and the Samsung website.
- Add Account appears or not, depending on whether you are logged in to your Samsung account.

Creating a new account

Settings > General > System Manager > Samsung Account > (Add Account) > Create Account

To create a new Samsung account, follow the instructions on the screen.

- For more information about the terms, select View Details.
- To protect personal information, select **Profile image selection and password entry (High security)** in the field below the password entry bar.
- 🖉 If you want the TV to log you into your account automatically whenever you turn on the TV, click Sign me in automatically.

Creating a Samsung account using a PayPal account

Settings > General > System Manager > Samsung Account > (Add Account) > Create with PayPal

This function may not be supported depending on the model or geographical area.

Signing in to a Samsung account

Settings > General > System Manager > Samsung Account > Sign In

Changing and adding information to a Samsung account

Settings > General > System Manager > Samsung Account > My Account > Edit profile

🖉 To change the account information, you must be logged in to your Samsung account.

Managing payment information saved on the TV

Settings > General > System Manager > Samsung Account > My Account > Payment Info

🖉 To manage the payment information, you must be logged in to your Samsung account.

Configure the Sync Internet settings

Settings > General > System Manager > Samsung Account > My Account > Sync Internet

Once you sign in to your Samsung account and configure the sync Internet settings, you can share your favourites that you registered using other devices.

🖉 To configure the Sync Internet settings, you must be logged in to your Samsung account.

Deleting a Samsung account from the TV

Settings > General > System Manager > Samsung Account > My Account > Remove Account

- 🖉 To remove account information, you must be logged in to your Samsung account.
- Although you delete your Samsung account, you are not unsubscribed yet. To unsubscribe from your Samsung Account, visit the Samsung Accounts website (http://account.samsung.com).

Signing out of your Samsung account

To sign out of your Samsung account, move the focus to your account at \bigcirc > \bigotimes Settings > General > System Manager > Samsung Account, and then press the Select button. Or move to My Account (\bigcirc > \bigotimes Settings > General > System Manager > Samsung Account > My Account), and then select Sign out.

Viewing the user agreement and privacy policy

Settings > General > System Manager > Samsung Account > My Account > Terms & Conditions, Privacy Policy

🖉 To view the user agreement and privacy policy, you must be logged in to your Samsung account.

Using the Ambient mode

Learn about the functions available in Ambient mode, which is a QLED TV-specific function.

Ambient mode

In Ambient mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient mode, press the 🔯 button. To return to the TV mode, press the 🍙 button. To shut off the TV, press the **()** button.

If you press the 😡 button when the TV is turned off, the TV turns on in Ambient mode.

🖉 If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient mode.

🖉 Because this function is a QLED TV-specific function, it may not be supported depending on the model.

🖉 🛛 To activate the 🐼 and menus, first select a content item in Ambient mode.

Screen states related to Ambient mode

• Ambient mode

In Ambient mode, you can set up and enjoy visual information and design. In this state, less power is consumed and brightness is automatically adjusted by the illuminance sensor.

• Getting dark state

In Ambient mode, the TV screen changes automatically according to the surroundings. When the surroundings get dark, the TV screen becomes darker. When the surroundings get bright before the TV screen turns completely black or when the remote control or the Voice Interaction function is operated, the TV screen returns to Ambient mode.

- You can change the auto brightness setting for **Ambient mode** by using 🕸 in the **Ambient mode** browser screen.
- 🖉 In this state, the TV is ready to process voice guides and voice commands.
- Black screen state

In Ambient mode, if the surroundings get to a specific level of darkness, the TV turns soft-off. To turn the screen back on in Ambient mode, press the 🔯 button on the remote control.

- 🖉 You can change the auto brightness setting for **Ambient mode** by using 🐼 in the **Ambient mode** browser screen.
- 🖉 In this state, the TV cannot process voice guides and voice commands.
- TV off state

To enter Ambient mode when the TV is turned off, press the 🔯 button on the remote control. To enter TV mode when the TV is turned off, press the 🕜 button. In TV mode, you can watch broadcasts or enjoy the content on the external devices connected.

Changing the content and settings for Ambient mode



🥒 The image on your TV may differ from the image above depending on the model and geographical area.

When you press the 🖾 or S button in Ambient mode, the Ambient mode browser screen appears. In the Ambient mode browser screen, you can select content and change the Ambient mode settings.

Setting up the content for Ambient mode

The Ambient mode browser screen displays content at the top and categories at the bottom. Use the left or right directional buttons in the content list at the top to move the focus to content you want, and then press the Select button. The selected content is played in Ambient mode.

In the future, more content that you can set up in the Ambient mode browser will be provided.

You can select the following categories and content:

- Décor: Provides beautiful screens.
- Info: Provides information such as weather, news headlines, and more.
 - This function may not be supported depending on the geographical area.
- Photo: Allows you to set a picture stored in your mobile device as the wallpaper of the Ambient mode screen. You can configure special layouts with your photos.
 - To save photos from your mobile device to the TV and import them in **Ambient mode**, use the SmartThings app on your mobile device.

Setting up the Ambient mode details

In the Ambient mode browser screen, move the focus to 🕄, and then press the Select button. You can change the following settings:

- Brightness: Adjust the screen brightness for Ambient mode.
- Colour Tone: Adjust the colours of the screen for Ambient mode.
- Auto Brightness: Change the auto brightness setting for Ambient mode.
 - When this function is set to **Off**, the brightness level of the TV screen is not automatically adjusted according to the ambient light level.
 - 🖉 This function may not be supported depending on the model.
- Ambient Off Timer: Set the time that the Ambient mode screen turns off automatically.
 - If there is no remote control input for the set time, the screen goes off. To turn the screen back on in Ambient mode, press the button on the remote control.

Changing the background colour of Ambient mode

To change the background colour of Ambient mode, move the focus to 🖑 in the Ambient mode browser screen, and then press the Select button. You can change the background colour or pattern. Move the focus to a colour or pattern you want, and then press the Select button.

Take a picture of a wall using the SmartThings app on your mobile device to set it as the background of Ambient mode.
 This function may have a delay in image transmission and optimisation depending on the network conditions.

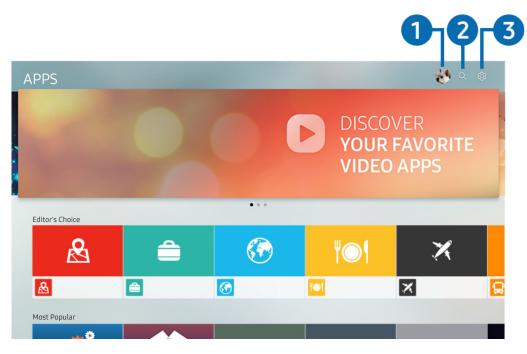
Using the Apps Service

Download and run various apps from Smart Hub.

(n) > 88 APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- 🖉 To use this feature, the TV must be connected to the Internet.
- When Smart Hub is launched for the first time, the default apps are automatically installed. The default apps may differ depending on the geographical area.



🖉 The image on your TV may differ from the image above depending on the model and geographical area.

1 🖄 Sign In

Go to the Samsung Account screen to create a new account or sign in to your account.

2 Q App Search

You can search for available apps.

3 龄 Settings

You can manage the installed apps.

Installing and running an app

Installing an app

- 1. Move to the app you want to install, and then press the Select button. The detailed information screen appears.
- 2. Select Install. When the installation is completed, the Open menu appears.
- 3. Select **Open** to run the app immediately.
- You can view installed apps on the Settings screen.
- 🖉 If the TV's internal memory is insufficient, you can install some specific apps on a USB device.
- You can run an app installed on a USB device only when the USB device is connected to the TV. If the USB device is disconnected while an app is running, the app is terminated.
- ✔ You cannot run an app installed on a USB device on a PC or another TV.

Launching an app

You can run the app desired from Downloaded App.

The icons below appear within the selected app's icon and indicate the following:

- ① : The app is installed on a USB device.
- 🗊 : The app has a password.
- 😰 : The app supports mirroring function.

Managing purchased or installed apps

Select 🐼 Settings on APPS. You can manage installed apps.

Settings						
					Auto	update : ON 🔵 7
				۳©۹	X	æ
1	Delete					
2	Add to Home					
3	Lock/Unlock					
4	Move					
5	Reinstall					
6	View Details					

🖉 The image on your TV may differ from the image above depending on the model and geographical area.

Removing an app

- 1. Move the focus to an app to delete.
- 2. Select Delete.
- 3. The selected app is deleted.
- 🖉 Ensure that the related app data is also removed when you remove an app.
- Standard apps cannot be uninstalled.

2 Adding apps to the Home Screen

- 1. Move the focus to an app to add.
- 2. Select Add to Home.
- 3. After the Home screen appears, move the selected app to the desired location.
- 4. Press the Select button.
- 5. The selected app is added to the Home Screen.

3 Locking and unlocking apps

- 1. Move the focus to an app to lock or unlock.
- 2. Select Lock/Unlock.
- 3. The selected app is locked or unlocked.
- To lock or unlock an app, enter the PIN. The default PIN is "0000". You can set the PIN in (A) > (3) Settings > General > System Manager > Change PIN.

4 Moving apps

- 1. Move the focus to an app to move.
- 2. Select Move.
- 3. Move the selected app to the desired location.
- 4. Press the Select button.
- 5. The selected app is moved.
- 🖉 This function may not be supported depending on the model or geographical area.

6 Reinstalling an app

- 1. Move the focus to the app to install again.
- 2. Select Reinstall.
- 3. Reinstallation starts.

6 Checking the app information details

- 1. Move the focus to the app to check.
- 2. Select View Details.
- 3. The app information screen appears.

Automatically updating apps

Installed apps can be automatically updated. If you do not want apps automatically updated, set Auto update to OFF.

🖉 Automatic update is enabled only when the TV is connected to the Internet.

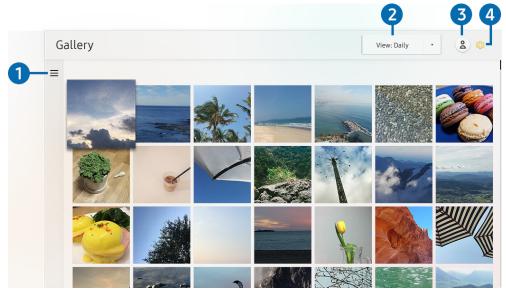
Rating apps

You can rate an app on the detailed information screen.

Using the Gallery App

View photos and videos synchronised with the Samsung Cloud.





🖉 The image on your TV may differ from the image above depending on the model and geographical area.

You can enjoy various content synchronised with a mobile device that supports the Samsung Cloud. The available content types are photos, videos, stories, and other content shared through your groups.

If you have shared content from your groups, you can access them in notifications.

🖉 To use the **Gallery** app, you must be signed in to your Samsung account.

$1 \equiv 0$ pen category

Move to \equiv at the top left of the screen using the directional buttons on the remote control to view the content synchronised with the Samsung Cloud by category.

2 View: Daily / View: Monthly

Sort the content by day or month.

3 🖄 Sign In

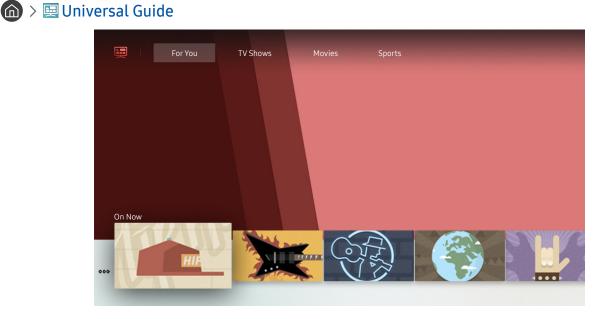
Go to the Samsung Account screen to create a new account or sign in to your account.

④ ☺ Gallery Settings

Restrict access to the Gallery app to protect your privacy, or view the user agreement and privacy policy.

Using the Universal Guide App

Search for and enjoy content such as TV shows, dramas, movies, and sports broadcasts.



🥒 The image on your TV may differ from the image above depending on the model and geographical area.

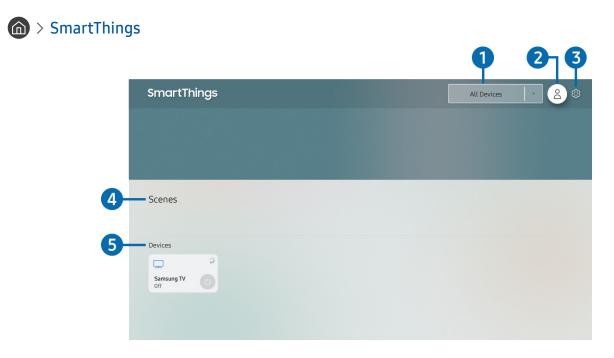
Universal Guide is an app that allows you to search for and enjoy various content such as TV shows, dramas, and movies in one place. Universal Guide can recommend content tailored to your preferences and notify you of new drama series.

You can use this feature on your mobile with Samsung SmartThings app.

- 🖉 To enjoy the content from these apps on your TV, they must be installed on the TV.
- Mhen you watch some paid content, you may need to make a payment using their associated app.
- 🖉 Some content may be restricted depending on your network conditions and your subscriptions to paid channels.
- Parental control is necessary when children use this service.
- Images may look blurry depending on the service provider's circumstances.
- 🖉 This function may not be supported depending on the model or geographical area.

Using the SmartThings App

Monitor and configure the smart devices you have connected to the SmartThings service.



🖉 The image on your TV may differ from the image above depending on the model and geographical area.

From the TV, you can monitor and configure your smart devices connected to the SmartThings service via the SmartThings app installed on them. You can receive notifications about the statuses of your smart devices.

- 🖉 To use this function, you must be logged in to your Samsung account.
- 🖉 This function may not be supported depending on the model or geographical area.

Location selection list

Press the Select button to identify all connected devices or the devices specific to a location.

2 🖄 Sign In

Go to the Samsung Account screen to create a new account or sign in to your account.

3 龄 Settings

Turn notifications on or off for the connected smart devices.

4 Scenes

Control multiple devices with one command after setting scenes via the SmartThings app on your mobile device.

The Scenes function is only available on a connected smart device.

5 Device list

View a list of the connected smart devices and their statuses.

You can add a new device through the SmartThings app on your mobile device. Please refer to the user guide in the SmartThings app on your mobile device for more details.

Using the e-Manual

Control and read the manual embedded in your TV.

Launching the e-Manual

Settings > Support > Open e-Manual

You can view the embedded e-Manual that contains information about your TV's key features.

- 🖉 Alternatively, you can download a copy of the e-Manual from Samsung's website.
- Ø Words in blue (e.g., Picture Mode) indicate a menu item.

Using the buttons in the e-Manual

- Q (Search): Select an item from the search results to load the corresponding page.
- A-Z (Index): Select a keyword to navigate to the relevant page.
 - 🧷 The menus may not appear depending on the geographical area.
- ① (Recent pages): Select a topic from the list of recently viewed topics.
- 🕝 (Try Now): Allows you to access the corresponding menu item and try out the feature right away.
- (Link): Access an underlined topic referred to on an e-Manual page immediately.
- 🖉 Some menu screens cannot be accessed from the e-Manual.

Using the Internet

Surf the Internet on your TV.

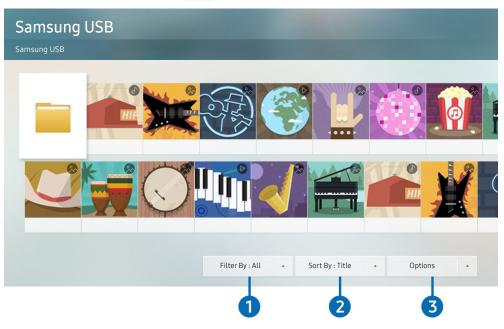
> Internet

When you run **Internet**, you can see recently viewed web sites or featured recommendations. When you select a desired web site, you can get immediate access to it.

- 🖉 You can use the Internet more easily after connecting a keyboard and mouse.
- 🖉 You can scroll web pages with the Directional pad.
- The web pages may differ from those on a PC.
- Before using the Internet, refer to "<u>Read Before Using the Internet</u>".

Playing pictures/video/music

Play media content stored on your TV, USB devices, smartphones, cameras, PCs, etc.



🥒 The image on your TV may differ from the image above depending on the model and geographical area.

You can play media content saved on storage devices, such as USB devices, mobile devices, and cameras, on the TV.

- You cannot play media content if the content or the storage device is not supported by the TV. For more information, refer to "<u>Read Before Playing Photo, Video, or Music Files</u>".
- 🖉 Backup important files before connecting a USB device. Samsung is not responsible for damaged or lost files.

You can use the following functions on the media content list screen of a storage device.

1 Filter By

Filters the media content by type of media.

2 Sort By

Sorts the content list.

 \checkmark This function may not be supported depending on the type of external device.

Options

Deletes or plays the selected media content in the media content list. When you select **Refresh**, the content list is reloaded.

🖉 You can delete only the recorded content. To delete content, change the Filter By option to Recorded.

Playing media content

Playing multimedia content on PC or mobile device

- 1. Select a device with media content in \bigcirc > \bigcirc Source. The media content list in the device appears.
- 2. Select a media content item from the list.
- 3. The content is played.
- For more information about buttons, refer to "Buttons and functions available while playing multimedia content".
- The content may not be played depending on the encoding method or file format. Furthermore, several functions may be restricted.
- Content on devices connected to the TV via your network may not play smoothly due to the network communication problems. If this occurs, use a USB device.
- For more information about connection to mobile device, refer to "<u>Connecting Your Mobile Device</u>".

Playing multimedia content on USB device

- 1. Connect a USB device to the USB port. When a pop up message appears on the screen, select **Browse** to easily move to the list of multimedia content stored on the device.
- 2. Select a content item to play from the list.
- 3. The content is played back.

Listening to your mobile device sound through the TV speaker using Sound Mirroring

- 1. Search for and connect to your TV from the Bluetooth (🕉) device list on your mobile device.
- 2. Play media content you want on your mobile device.
- 3. Enjoy your mobile device sound through the TV speaker.
- This function may not be supported depending on the TV model.
- If the TV and the sound bar are connected wirelessly, the operation may be restricted.

Using Voice Interaction

Speak into the microphone on your Samsung Smart Remote to control your TV.

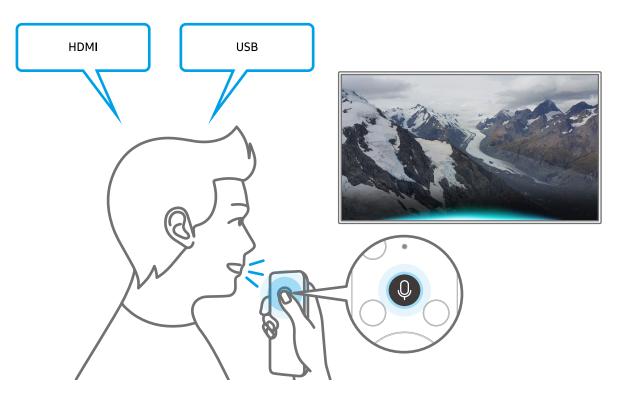
- This function may not be supported depending on the model or geographical area.
- 🖉 The supported language may differ depending on the geographical area.

Running Voice Interaction

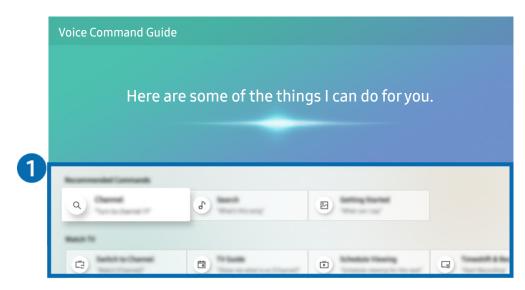
Press and hold the D button on your Samsung Smart Remote, say a command, and then release the D button. The TV recognises the voice command.

To view the Voice Interaction guide, press the 🕕 button once:

- When you press the 🕖 button for the first time, the Using Voice Interaction button appears at the bottom of the screen. Press the Select button. The Using Voice Interaction popup window appears and a tutorial on using Voice Interaction is shown.
- When you press the 🕖 button, the Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.



Learning about Voice Command Guide



🖉 The image on your TV may differ from the image above depending on the model and geographical area.

1 Voice Command Guide

You can learn the voice commands to use the **Voice Interaction** in various situations. Use the directional buttons to move to the desired command, and then press the Select button. You can operate the TV with various voice commands.

To view a tutorial on Voice Interaction, use the directional buttons to move to the bottom, and then select the View Tutorial item.

Read Before Using Voice Interaction

Precautions for Voice Interaction

- The supported voice interaction languages and features may differ depending on the geographical area.
- If the language set differs from the language of your country, some features are not available.
- Voice Interaction is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Voice Interaction server error.
- The existing functional specifications may be changed if Voice Interaction is updated.
- Voice Interaction is available only on TVs that support it and come with remote controls that have a microphone.
- Symbols including "-" and special characters are not supported. Consequently, if a word or sentence contains numeric values or symbols, the function may not operate properly.
- Searched results may not provide complete results.
- You may be required to pay for some apps. Consequently, you may encounter a service application or contract.
- To change the current channel by saying channel names as voice commands, you must finish Set Up Your Service Provider. If Set Up Your Service Provider is not completed, you can complete it using the following menu.

– m > 1 Settings > General > Start Setup (ry Now)

- To use the voice text input function and Smart search function, you must consent to provisions allowing third parties to collect and use your voice data.
- To use the Voice Interaction function, you must:
 - Agree to Smart Hub's Terms of Use
 - Agree to a guidance regarding the collection and use of personal information for the Smart Hub service.
 - Consent to the collection and use of personal information for the voice interaction-based service.

Requirements for using Voice Interaction

- The voice interaction rate differs with the volume/tone, pronunciation, and ambient sound environment (TV sound and ambient noise).
- The optimal volume for voice commands is between 75 dB and 80 dB.

TV Viewing

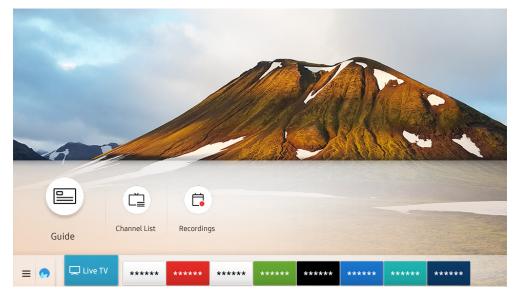
You can use convenient features while watching TV. Additionally, you can edit the channel list or create favourite channel lists.

Viewing Digital Broadcast Information at a Glance

See an overview of each channel's programme lineup.

Using the guide





🖉 The image on your TV may differ from the image above depending on the model and geographical area.

In the **Guide**, you can see the daily programme schedules for each broadcaster, see programme information, choose a programme to watch, and set up a schedule viewing or recording.

The Guide also appears when you press the CH button while watching TV.

🖉 On the standard remote control, press the GUIDE button.

- To see information about analogue channels and use the analogue channel functions of the **Guide**, you must finish the service provider settings in initial setup.
- To view the Guide, you must first set the TV's clock (Settings > General > System Manager > Time > Clock).

To start schedule viewing, schedule recording, and other function for a programme listed in the **Guide**, first move the cursor to it and then press and hold Select button on the remote control to use follows functions:

- Record: You can record the programme that you are currently watching or a programme on another channel.
 - 🥒 This function may not be supported depending on the model or geographical area.
- Schedule Viewing: You can schedule viewing of a broadcast scheduled programme.
 - This function may not be supported depending on the model or geographical area.
 - For more information about **Schedule Viewing**, refer to "<u>Setting Up a Schedule Viewing</u>".
- Schedule Recording: You can schedule recording of a broadcast scheduled programme.
 - This function may not be supported depending on the model or geographical area.
 - For more information about recording or Schedule Recording, refer to "<u>Recording Programmes</u>".
- Edit Recording Time: You can change the start and end times of scheduled programme recordings.
 - This function may not be supported depending on the model or geographical area.
- Stop: You can stop the recording function that is currently running.
- Cancel Scheduled Viewing / Cancel Scheduled Recording: You can cancel scheduled viewings and recordings.
 - This function may not be supported depending on the model or geographical area.
- View Details: You can see detailed information about the selected programme. The information may differ with the broadcast signal. If information is not provided with the programme, nothing appears.

To move to the **Channel Filter** or **Schedule Manager** screen: Press the 🔂 or 💀 button. (If the remote control button is 🔞, press it twice.)

- Channel Filter: You can view channels and programmes categorised by the types defined in Channel List.
- Schedule Manager: You can see the Schedule Manager or Recording & Schedule Manager screen.
- Aerial Type: You can change the broadcast signal to receive.
- This function may not be supported depending on the model or geographical area.

Recording Programmes

Record a current or upcoming programme using a USB device instead of a video recorder.

- Read all precautions before using the recording feature. Refer to "Before Using the Recording and Timeshift Functions" for more information.
- 🖉 You can record only the programmes that have been received through an aerial.
- ✓ The ♀ appears next to the programmes and channels scheduled for recording.
- This function may not be supported depending on the model or geographical area.
- If you go to > Live TV while no USB device is connected, the Schedule Manager screen appears in place of the Recordings screen.

Recording programmes

Using the instant and schedule recording options from the guide screen

• Instant Recording

Select a live programme from the **Guide**, press and hold the Select button, and then select **Record** from the pop-up menu to start recording immediately.

• Schedule Recording

Select a programme scheduled to be broadcast, press the Select button, and then select Schedule Recording to set up a schedule recording of the scheduled programme.

Using the instant and schedule recording options while watching a programme

• Instant Recording

If you select **Record** after pressing the 123 or 100 button and then pressing the Select button while watching a broadcast, recording starts.

• Schedule Recording

Press the Select button while watching a programme to display the programme info window. Use the left or right directional button to select a scheduled programme. Press the Select button, and then select Schedule Recording to set up a schedule recording of the scheduled programme.

Scheduling a video recording after entering the date and time

Schedule Manager or Recordings > Schedules > Add Recording

To schedule a recording, set the values for Aerial, Channel, Repeat, Date, Start Time, and End Time of the broadcast programme to record, and then select Save.

Check the current time in (f) > (2) Settings > General > System Manager > Time > Clock. Ì

The menus may not appear depending on the model or geographical area. Ì

Managing the schedule recording list

Live TV > Schedule Manager or Recordings > Schedules

You can change scheduled recording information or cancel scheduled recordings.

- Ì The menus may not appear depending on the model or geographical area.
- You can schedule up to 30 recordings or viewings at once using Schedule Recording and Schedule Viewing.

Setting the Schedule Recording Time

Live TV > Schedule Manager or Recordings > Schedules > Edit

You can set the start and end times for a schedule recording. You can set the start time up to 10 minutes before the programme starts and the end time up to 10 minutes after the programme ends.

The menus may not appear depending on the model or geographical area.

Canceling a scheduled recording

Schedule Manager or Recordings > Schedules > Delete

The menus may not appear depending on the model or geographical area.

Checking scheduled recordings



Schedule Manager or Recordings > Schedules > View Details

The menus may not appear depending on the model or geographical area.

Viewing recorded programmes

Live TV > Schedule Manager or Recordings > Recordings

Select a file containing a recording from the list. The file is played back.

- Buttons that appear may differ depending on the file being played. For more information about control buttons, refer to "Buttons and functions available while recording a programme or Timeshift".
- 🖉 The menus may not appear depending on the model or geographical area.

Setting up a schedule recording start



- **Start Recording Early**: You can set the time to start the recording earlier than the broadcast start time in the programme guide.
- **Continue Recording After**: You can set the time to end the recording later than the broadcast end time in the programme guide.
- **Symbol Information**: Provide users with the information of the symbol and the explanation about an icon used in the schedule manager.
 - 🖉 The menus may not appear depending on the model or geographical area.

Setting Up a Schedule Viewing

Configure the TV to show a specific channel or programme at a specific time and date.

- 🖉 The 🕞 appears next to programmes that have been configured for a schedule viewing.
- To set up a schedule viewing, you must first set the TV's clock (Settings > General > System Manager > Time > Clock).

Setting up a schedule viewing for a channel

Using the schedule viewing options from the guide screen

On the **Guide** screen, select a programme you would like to view, press the Select button, and then select **Schedule Viewing** in the pop-up menu that appears.

Using the schedule viewing options in the programme info window

Press the Select button while watching TV. The Programme Info window appears. Select a programme that will be broadcast using the left or right directional buttons. Press the Select button, and then select Schedule Viewing to schedule viewing of that programme.

Using schedule viewing to view programmes at a specified time on a specified date

Schedule Manager or Recordings > Schedules > Add Viewing

To schedule a Viewing, set the values for Aerial, Channel, Repeat, Date, and Start Time of the broadcast programme to record, and then select Save.

Check the current time in \bigcirc > \bigotimes Settings > General > System Manager > Time > Clock.

Ĩ The menus may not appear depending on the model or geographical area.

Editing a schedule viewing

Live TV > Schedule Manager or Recordings > Schedules

You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.

The menus may not appear depending on the model or geographical area.

Setting the Schedule Viewing Time

> Live TV > Schedule Manager or Recordings > Schedules > Edit

You can set the start time of a schedule viewing. If you choose a programme from the Guide, the Start Time can be set up to 10 minutes before the programme.

The menus may not appear depending on the model or geographical area.

Canceling a scheduled viewing



Schedule Manager or Recordings > Schedules > Delete

The menus may not appear depending on the model or geographical area.

Checking scheduled viewings



Schedule Manager or Recordings > Schedules > View Details

The menus may not appear depending on the model or geographical area.

Using Timeshift

Play, pause, or rewind live TV.

You can pause and rewind live TV by using **Timeshift**. Activating this function disables the **Broadcasting** function.

To activate the **Timeshift** function while watching TV, press the 😥 or 😶 button, press the Select button and then select **Timeshift**, or press the 🕅 button.

- When the Timeshift function is running, some of function are not available in 🏠 > 🕸 Settings > Broadcasting.
- 🖉 🛛 To use Timeshift, you must connect a USB device for recording.
- Read all precautions before using the Timeshift function. For more information, refer to "Before Using the Recording and <u>Timeshift Functions</u>".
- 🖉 This function may not be supported depending on the model or geographical area.

Buttons and functions available while recording a programme or Timeshift

Review available buttons and functions of how they are used while recording a programme or Timeshift.

- The available buttons and functions may differ with the functions.
- This function may not be supported depending on the model or geographical area.

When you press the down directional button, the control bar appears and the following options are available:

• Edit Recording Time

You can set for what period of time the programme will be recorded.

- This function is only available when a programme is being recorded.
- Record

You switch from the Timeshift function to the recording function. When switching to the recording function, you can include the content recorded by the Timeshift function into the new recording.

This function is only available when the Timeshift function is running.

• Go to Live TV

Select to return to the current scenes of the programme when the recording or Timeshift function is playing its past scenes.

• Stop Recording / Stop Timeshift

Ends the recording or Timeshift function.

• Info

Displays the programme info window about the programme on which the recording or Timeshift function is working.

• Pause / Play

You can use the following functions when the video is paused. Note that with the video paused, the TV does not play audio.

- Slow Rewind or Slow Forward: Allows you to play the video slowly (1/8, 1/4, 1/2) backward or forward by selecting the ⊲ or ▷ option. To increase the rewind or forward speed in slow mode up to 3 times, select the option repeatedly. To return to normal speed, select the ▷ option.
 - When the **Slow Rewind** function is activated, you can view the difference between the current recording time and the current rewind time.
- Jump Backward / Jump Forward

Press the up directional button to move the focus to the playback control bar, and then select the left or right directional button in the playback control bar to move backward or forward by 10 seconds in the video.

When the Jump Backward function is activated, you can view the difference between the current recording time and the current rewind time.

• Rewind / Fast Forward

🖉 This function is not available while you are watching a programme that is currently being broadcast.

Using the Channel List

Change the channel or check programmes on other digital channels.

A > Live TV > Channel List

Using the **Channel List**, you can change the channel or check programmes on other digital channels while watching TV. On standard remote control, press the CH LIST button.

The **Channel List** screen contains the following icons:

- • : A favourite channel
- 🔒 : A locked channel.

If you press the right directional button when viewing the Channel List screen, you can use the following functions:

• All

Displays the channels that have been automatically searched.

• TV PLUS

While the TV is connected to the Internet, you can watch popular programmes or highlights for each theme through a virtual channel at any time. As with regular channels, the TV provides the daily programme schedules for TV PLUS.

- This function may not be supported depending on the model or geographical area.
- Favourites

Displays Favourites 1 to Favourites 5.

• Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

• Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

• Terrestrial, Cable, or Satellite

Allows you to choose between Terrestrial, Cable, and Satellite.

🖉 This function may not be supported depending on the model or geographical area.

Editing channels

Edit the channels stored on your TV.

Live TV > Channel List > All > Edit Channels

The Edit Channels screen icons indicate the following:

- 🖤 : A favourite channel
- 🔒 : A locked channel.

Removing registered channels

To remove a channel, select it from the Edit Channels screen, and then select Delete. Removed channels do not appear in the Channel List.

Editing registered channels

You can access the following options by selecting All > Edit Channels:

Locking or unlocking a channel

After selecting a target channel in **Edit Channels**, select **Lock** or **Unlock**. Then the channel is locked or unlocked. A locked channel cannot be viewed.

- 🖉 If you want to set the password, set 🍙 > 🛱 Settings > Broadcasting > Apply Channel Lock to On.
- For more information about how to set your password, refer to "Setting up a password".
- Changing a channel name

After selecting a channel to change in Edit Channels, select Rename channel to change the channel name.

- This function is only available for selected channels.
- This function is only available for analogue broadcasts.

Change Number

After selecting a channel to change in Edit Channels, select Change Number to change the channel number.

- 🖉 When a channel number is changed, its channel information is not updated automatically.

• Restore TV PLUS

You can re-scan and store TV PLUS channels that have been received.

- If there are **TV PLUS** channels on the TV, after deleting the stored channels, the system stores the newly scanned channels.
- If the TV has saved **TV PLUS** channels, **Restore TV PLUS** deletes the existing list, and then saves the newly scanned channels.
- 🖉 This function may not be supported depending on the model or geographical area.

Creating a Personal Favourites List

Designate frequently watched channels as favourite channels.

Favourite channels are highlighted in the Edit Channels and Channel List screens with the ♥ symbol. You can create up to five favourites lists so that your family can create their own personal favourites list.

Registering channels as favourites

A > Live TV > Channel List

- 1. Press the right directional button on your remote control.
- 2. Select Favourites.
- 3. Select one of the five favourites lists.
- 4. Move to Edit Favourites.
- 5. Select a channel to add to the favourites list.
- 6. Select \supseteq icon.

The selected channel is registered in the favourites list.

Viewing and selecting channels on Favourites lists only

> Live TV > Channel List

- 1. Press the right directional button on your remote control.
- 2. Select Favourites.
- 3. Select the desired list among the five favourites lists on the screen.

The channels in the selected favourites list appear.

🖉 Only favourites lists that contain registered channels will display channels.

Editing a Favourites List

Use the functions that are available while watching TV.

b > Live TV > Channel List

After pressing the right directional button on your remote control, select Favourites > Favourites 1 - Favourites 5 > Edit Favourites. The Edit Favourites screen appears.

Adding channels to favourites list

Select channels to add and select the \sum icon. The selected channels are added to Favourites.

Removing channels from a favourites list

Select channels in a favourites list, and then select the $\overline{\triangleleft}$ icon.

Rearranging a favourites list

Select one or more channels, and then select **Change order**. The **Change order** highlight appears. Press the up/down directional buttons to indicate the new location for the channels. Press the Select button to set the channels into their new location.

Renaming a favourites list

Select the favourites list you want to rename, and then select **Rename Favourites**. Enter a new name using the onscreen keyboard that appears, and then select **Done**.

TV-Viewing Support Functions

Use the functions that are supported by digital or analogue channels.

Changing the broadcast signal

A > Live TV > Channel List

After pressing the right directional button on your remote control, and then move the focus to Terrestrial or Cable, press the Select button.

- Ĩ You do not need to use this function if your TV is connected to a cable box or satellite box.
- The **Cable** may not appear depending on the model or geographical area. Ì
- Ì The reception signals may differ depending on the geographical area.

Scanning for available channels

Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning

- Ĩ This function may not be supported depending on the model or geographical area.
- Ĩ If the TV is connected to a cable box or satellite box, you do not need to do this.
- Ĩ The DVB-T2 system may not be supported depending on the geographical area.
- Ĩ The Auto Tuning Settings may not appear depending on the model or geographical area.

Checking digital channel signal info and strength



Settings > Support > Self Diagnosis > Signal Information (ry Now

- Ì If your TV is attached to a separate, over-the-air antenna, you can use the signal strength information to adjust the antenna for increased signal strength and improved HD channel reception.
- Signal Information is only available for digital channels.

Restricting Viewing to Specific Channels

Settings > Broadcasting > Apply Channel Lock (Try Now)

By selecting the menu, you can turn on or off the Apply Channel Lock function.

Selecting the broadcasting audio option

Settings > Broadcasting > Dual Sound (ry Now)

Set audio options for stereo or bilingual broadcasts. For more information, refer to "Supported broadcasting audio options".

This function may not be supported depending on the model or geographical area.

Using Programme Rating Lock

Settings > Broadcasting > Programme Rating Lock

🖉 This function may not be supported depending on the model or geographical area.

This function is useful for controlling what children watch on TV. Programme Rating Lock Settings does not, however, block programmes originating from external sources, such as Blu-ray players, DVD players, or USB files.

Every time you access Programme Rating Lock Settings, you must enter the security PIN. You must also enter this PIN to watch a blocked programme. The default PIN is "0000". To change the PIN, go to \bigcirc Settings > General > System Manager > Change PIN.

For more information about how to set your password, refer to "Setting up a password". Ĩ

Ì The **Broadcasting** is not available in HDMI or Component mode.

Ì Programme Rating Lock may not be supported depending on your input signal.

Configuring advanced broadcasting settings

A Settings > Broadcasting > Expert Settings (ry Now)

Selecting the broadcast audio language

Settings > Broadcasting > Expert Settings > Audio Options (ry Now)

This is the language you will hear while watching TV if the language is included in the broadcast signal. Audio **Options** functions differently for analogue and digital channels.

This function may not be supported depending on the model or geographical area.

Selecting a Language

Settings > Broadcasting > Expert Settings > Audio Options > Audio Language Settings

You can change the audio language you want to hear.

🖉 The available language may differ with the broadcast.

Selecting a Audio Format

Settings > Broadcasting > Expert Settings > Audio Options > Audio Format

You can change the audio format you want to hear.

- 🖉 The supported audio format may differ with the broadcast programme.
- 🧪 This option is only available on digital channels.

Tuning broadcast signals manually

Settings > Broadcasting > Expert Settings > Manual Tuning (ry Now)

You can scan for all the channels manually and store the scanned channels in the TV. To stop scanning, select Stop.

🖉 This function may not be supported depending on the model or geographical area.

Tuning digital channels

Settings > Broadcasting > Expert Settings > Manual Tuning > Digital Channel Tuning

Select New > Search to scan for digital channels automatically and store the scanned channel list in the TV.

Tuning analogue channels

Settings > Broadcasting > Expert Settings > Manual Tuning > Analogue Channel Tuning

Select New and configure Programme, Colour System, Sound System, Channel, and Search to scan for analogue channels. Then, select **Store** to store the scanned channels in the TV.



This function is only available for analogue broadcasts.

Channel mode

• **P** (programme mode)

When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from PO to P99. You can select a channel by entering the position number in this mode.

C (aerial channel mode) / S (cable channel mode)

These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Fine-tuning analogue broadcasts



Settings > Broadcasting > Expert Settings > Fine Tune (ry Now)

This function is only available for analogue broadcasts.

Transferring channel list

Settings > Broadcasting > Expert Settings > Transfer Channel List

You can import or export the channel list to a USB storage. To use this function, the PIN number is required.

- Import from USB: Imports channel list from a USB storage. •
- **Export to USB**: Exports channel list saved in the TV to a USB storage.
- This function is available when USB is connected. Ì
- Ì This function may not be supported depending on the model or geographical area.

Enabling/Disabling Edit Channel Numbers

Settings > Broadcasting > Expert Settings > Edit Channel Numbers

Use this to change channel number. When channel number is changed, channel information is not updated automatically.

🖉 This function may not be supported depending on the model or geographical area.

Changing teletext language

Settings > Broadcasting > Expert Settings > Teletext Language Settings > Teletext Language

You can set or change the teletext language. To watch the teletext broadcast in your preferred language, select a language to use in **Primary Teletext Language**. If this language is not supported, you can watch the teletext broadcast in your secondary preferred language set in **Secondary Teletext Language**.



Showing TVkey Interface menu

Settings > Broadcasting > Expert Settings > TVkey Interface

Show TVkey Interface menu information.

- TVkey Menu: Show TVkey Interface menu.
- Guide: Select the guide you want to use when watching with TVkey.
- Delete TVkey Operator Profile: Show the TVkey operator list to delete.
- 🖉 This function may not be supported depending on the model or geographical area.

Picture and Sound

You can change the settings for the picture and the sound according to your preference.

Adjusting the Picture Quality

Change the Picture Mode and adjust Expert Settings.

Choosing a picture mode



You can select the Picture Mode that provides the best viewing experience.

• Dynamic

Makes the picture brighter and clearer in bright viewing environments.

• Standard

Is the default mode suitable for general viewing environments.

Natural

Reduces eye strain for a comfortable viewing experience.

Movie

Is suitable for watching TV or movies in a dark room.

This function may not be supported depending on the model.

Configuring advanced picture settings

Settings > Picture > Expert Settings (ry Now)

Configure the screen settings to your taste by using the following functions:

- Backlight Try Now
- Brightness (ry Now
- Contrast (ry Now
- Sharpness (Try Now
- Colour (ry Now
- Tint (G/R) (Try Now
- Apply Picture Settings (ry Now
- Digital Clean View (ry Now
- Auto Motion Plus Settings (ry Now
 - When LED Clear Motion is set to On, the screen appears darker than when it is Off.
- Local Dimming
 - Controls the brightness of individual areas on the screen to maximise contrast automatically.
 - This function may not be supported depending on the model or geographical area.
- Contrast Enhancer (Try Now
- HDR+ Mode

Automatically provide an optimal HDR effect based on the video source.

The HDR (High Dynamic Range) technology implements video images that are very similar to the images seen through human eyes by finely adjusting the contrast of the source.

This function may not be supported depending on the model or geographical area.

• Film Mode (Try Now

🧷 🛛 This function is only available when the input signal is TV, AV, Component (480i, 576i, 1080i), or HDMI (1080i).

- Colour Tone (ry Now
- White Balance Try Now
- Gamma (Try Now)
- RGB Only Mode Try Now
- Colour Space Settings (ry Now
- Reset Picture (ry Now

Setting the Viewing Environment for External Devices

You can optimise the TV for viewing specific video formats.

Playing games on an optimised screen

> In Settings > General > External Device Manager > (Game Mode Settings) > Game Mode

You can enable the game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation™ or Xbox™.

- The Game Mode Settings may not appear depending on the model or geographical area.
- The game mode is not available for normal TV viewing.
- The screen may shake somewhat.
- When Game Mode is enabled, Picture Mode and Sound Mode are switched to Game automatically.
- To use other external device on the same port, remove the game console connection, set **Game Mode** to **Off**, and then connect the external device to the port.

Configuring game mode details

Configuring Game Motion Plus

Settings > General > External Device Manager > Game Mode Settings > Game Motion Plus Settings

You can configure the Game Motion Plus settings.

🖉 This function may not be supported depending on the model or geographical area.

Setting the FreeSync function

You can play your gaming experience more pleasantly by eliminating screen tearing and stuttering.

- Be sure to set this function for only the external devices that support the FreeSync feature of AMD Radeon.
- For an optimised game environment, set the resolution of the external device to 1080p at 120 Hz. For more information, refer to "Supported Resolutions for FreeSync."
- 🖉 If the resolution is not supported, the operation may not be smooth.
- Mhen the FreeSync options are set or the FreeSync function is operated for an external device, the screen may flicker.
- 🖉 Slight brightness changes may occur during FreeSync operation due to frequency variation of the external device.
- Before playing a game, set **FreeSync** to **Basic** or **Ultimate**.
- This function may not be supported depending on the model or geographical area.

Viewing UHD videos

Settings > General > External Device Manager > HDMI UHD Color (Try Now)

If an external UHD player is connected to the TV, use the HDMI UHD Color function to convert the TV's HDMI connector to a mode optimised for the UHD 50P/60P signals.

- If you move to the HDMI connector with which you want to use the HDMI UHD Color function and press the Select button to set the function to On, the TV screen flickers.
- The HDMI connection with HDMI UHD Color set to Off supports up to UHD 50P/60P 4:2:0 input signals, while the HDMI connection with HDMI UHD Color set to On supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals. For more information, refer to "Supported Resolutions for UHD Input Signals".
- When you connect the TV to an external device that supports only the UHD 24 or 30 Hz frequency or any FHD frequency, the HDMI UHD Color function may not be available. In this case, set HDMI UHD Color to Off.

Using HDMI black level

> 🕸 Settings > General > External Device Manager > HDMI Black Level (Ty Now

Use HDMI Black Level to adjust the black level to compensate for low black levels, low contrast, or dull colours generated by external devices connected to the TV via an HDMI cable.

This function is only available when the input signal, connected to the TV via an HDMI connector, is set to RGB444.

Picture Support Functions

Configure the picture settings for your TV.

Changing the picture size

You can change the size of the picture displayed on the TV screen.

- 16:9 Standard •
- Custom
- 4:3
- Supported picture sizes differ with the input signal. For more information about supported picture sizes, refer to "Picture Ì sizes and input signals".

Changing the picture size automatically



🕥 > 🕸 Settings > Picture > Picture Size Settings > Auto Wide (ry Now

This function may not be supported depending on the model or geographical area.

Changing the picture size in 4:3 or Screen Fit mode

Settings > Picture > Picture Size Settings > 4:3 Screen Size (ry Now)

You can select a picture size suitable for your geographical area while you are watching TV in the 4:3 or Fit to screen mode. The supported screen sizes differ with the country and this function allows you to adjust the picture size in this case.

- Ì The 4:3 mode is not available when an external device is connected to the TV via a Component connector or an HDMI connector.
- This function may not be supported depending on the model or geographical area. ð

Fitting the picture to the screen

A Settings > Picture > Picture Size Settings > Fit to screen (ry Now)

- 🖉 This function may not be supported depending on the **Picture Size** setting.
- This function may not be supported depending on broadcasting signals.

Adjusting the picture size and/or position

- Settings > Picture > Picture Size Settings > Zoom and Position (ry Now)
- This function is available only if Picture Size is set to Custom.
- 🖉 $\,$ To change the picture position on analogue channels, first enlarge the picture and then change the position.

Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

Choosing a sound mode

Settings > Sound > Sound Mode (ry Now)

You can select a favourite sound mode suitable for the content type or the listening environment.

- Standard
- Optimised
- Amplify

🖉 This function may not be supported depending on the model.

When an external device is connected, Sound Mode may change accordingly.

Configuring advanced sound settings

Settings > Sound > Expert Settings (Ty Now)

You can personalise the sound quality by adjusting the following settings.

- Balance Try Now
- Equaliser Try Now
- HDMI Input Audio Format (ry Now
- Digital Output Audio Format (ry Now
 - If you use a receiver that does not support Dolby Digital Plus, you will hear no sound if you select Dolby Digital+.
 - The Dolby Digital+ option is only available via ARC(HDMI) for external devices that support the format.
- Audio Delay (ry Now
- Auto Volume
- Sound Feedback (ry Now
- Reset Sound (ry Now
 - 🖉 🛛 Standard audio signals are sampled at 48 kHz while HD audio signals are sampled at 96 kHz.
 - ℰ Some S/PDIF receivers may not be compatible with HD audio format.

Using the Sound Support Functions

Configure the sound settings for your TV.

Selecting speakers

Settings > Sound > Sound Output (ry Now)

You can select which speakers the TV uses for audio output.

Listening to the TV through Bluetooth devices

You can connect Bluetooth audio devices to the TV. They must be paired using the TV's Bluetooth function. For more information on pairing, refer to the Bluetooth audio device's operating manual.

- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 If the TV fails to find a Bluetooth audio device, place the device closer to the TV, and then select **Refresh**.
- When you turn on a paired Bluetooth audio device, the TV detects it automatically, and then displays a pop-up window. Use this pop-up window to activate/deactivate the Bluetooth audio device.
- The sound quality may be affected by the condition of the Bluetooth connection.
- 🖉 Before using a Bluetooth audio device, refer to "<u>Read Before Using Bluetooth Devices</u>".

External speakers may not be controlled with the Samsung Smart Remote. When an external speaker is enabled, some sound menus are not supported.

Listening to the TV through a Samsung audio device that supports the Wi-Fi function

For more information about how to connect and use a Samsung audio device that supports the Wi-Fi function, refer to its user manual.

This function may not be supported depending on the model or geographical area.

Using Samsung audio devices that support the Wi-Fi function to create a surround sound configuration

Settings > Sound > Wi-Fi Speaker Surround Setup (ry Now)

If you've connected one or more Samsung wireless audio devices that support the Wi-Fi function to the TV, you can create an optimal sound set up by configuring the surround effect settings. You can select any of the surround sound configurations, with or without a sound bar.

A surround sound configuration can be used if all of the following conditions are met:

- Two or more Samsung wireless speakers of the same type must be connected to the same wireless network.
- The Samsung audio devices that supports the Wi-Fi function, must be connected to the same wireless network as the TV.
- The surround sound configurations with a sound bar may not be supported depending on the product.
- If you activate the Screen Mirroring function while using the Samsung audio devices that supports the Wi-Fi function, the connection is disconnected.
- 🖉 Lip syncs with mismatched video and audio time codes may occur depending on the device type.

System and Support

You can configure system and support settings such as clock, timers, energy usage and software updates.

Using the Time Functions and the Timers

Set the current time and use the timer function.

Setting the current time

Settings > General > System Manager > Time (ry Now)

You can set the **Clock** manually or automatically. Once the **Clock** is set, you can view the current time on the TV anytime.

You must set the clock in the following cases:

- The power cable is disconnected and then connected.
- The Clock Mode is changed from Auto to Manual.
- The TV is not connected to the Internet.
- No broadcast signals are received.

Setting the clock automatically

Settings > General > System Manager > Time > Clock > Clock Mode > Auto

- This function works only when the TV is connected to the Internet or is receiving digital broadcasts through an antenna connected.
- 🖉 The accuracy of the time information received may differ with the channel and signal.
- When watching TV by connecting a cable box or satellite box to the HDMI or Component port, you must set the current time manually.

Setting the clock manually

> 🕸 Settings > General > System Manager > Time > Clock > Clock Mode > Manual

When Clock Mode is set to Manual, you can directly enter the current time. Select the Date and Time by using the arrow buttons on the remote control.

Adjusting the clock for time zone

> 🕸 Settings > General > System Manager > Time > Clock > Time Zone

Selects your time zone.

- This function is only available when the Clock Mode is set to Auto.
- 🖉 This function may not be supported depending on the geographical area.

Changing the current time

Settings > General > System Manager > Time > Clock > Time Offset

Time Offset adjusts the time through a network connection.

This function is available only when all the following conditions are met:

Clock Mode is set to Auto, the TV is connected to the Internet through a local area network, and the TV fails to receive time information through normal broadcast signals.

Using the timers

Using the sleep timer

You can use this function to automatically shut off the TV after a pre-set period of time. You can set the sleep timer to up to 180 minutes to automatically turn off the TV.

🖉 This function may not be supported depending on the model or geographical area.

Turning off the TV using the off timer

Settings > General > System Manager > Time > Off Timer

You can set **Off Timer** to shut off the TV automatically at a specific time. **Off Timer** is only available if the **Clock** has been set.



Using the Auto Protection Time and Energy Saving Functions

Setting the Auto Protection Time and reduce the TV's energy consumption.

Setting the Auto Protection Time

Settings > General > System Manager > Auto Protection Time (ry Now)

Activate a screensaver when your TV displays a still image for two hours or more.

🖉 This function may not be supported depending on the model or geographical area.

Reducing the energy consumption of the TV

A Settings > General > Eco Solution (Try Now)

You can adjust the brightness level of the TV, reduce overall power consumption, and prevent overheating.

Ambient Light Detection (ry Now

Automatically adjusts the brightness level of the TV, according to the ambient light level, to reduce power consumption. If the Ambient Light Detection has adjusted the screen brightness to a too bright or dark level, you can select Minimum Backlight to manually adjust the minimum screen brightness.

Minimum Backlight (ry Now

When the Ambient Light Detection is turned on, you can manually adjust the minimum brightness of the TV screen to consider the brightness level of the surroundings. This function acts only when the value is less than the setting in \bigcirc > \bigotimes Settings > Picture > Expert Settings > Backlight.

Energy Saving Mode (ry Now

Allows you to select a brightness setting from the list to reduce the TV's power consumption.

Motion Lighting (ry Now

Adjusts the brightness in response to on-screen movements to reduce power consumption.

Auto Power Off Try Now

Automatically turns off the TV to reduce unnecessary power consumption if there is no operation for 4 hours.

Updating the TV's Software

View your TV's software version and update it if necessary.

Settings > Support > Software Update (ry Now)

Updating the TV's software to the latest version

▲ DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. Video and audio settings will be reset to their defaults after a software update.

Updating through the Internet

ð

Settings > Support > Software Update > Update Now (ry Now)

Updating from the Internet requires an active Internet connection.

Updating through a USB device

Settings > Support > Software Update > Update Now

After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the TV to update.

To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.

Updating the TV automatically

Settings > Support > Software Update > Auto update (ry Now)

If the TV is connected to the Internet, you can have the TV update its software automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

If you agree to the Smart Hub terms and conditions, Auto update is set to On automatically. If you want this function disabled, use the Select button to turn it off.



This function requires an Internet connection.

Protecting the TV from Hacking and Malicious Code

Protect your TV from hacking attempts and malicious code.



You can use Smart Security to protect the TV from hacking and malicious code when it is connected to the Internet.

Scanning the TV and connected storage for malicious code

Settings > General > System Manager > Smart Security > Scan

If malicious code is found, the results of the scan will appear on the screen. This result window displays all malicious code found. You can quarantine (isolate) the code. Quarantining prevents it from executing.

- 1. Select all the malicious code to quarantine.
- 2. Select Isolate.

The selected malicious code is relocated to the Isolated List.

🖉 The Isolated List displays all quarantined malicious codes.

Using Other Functions

View other functions.

Running the accessibility functions



Running Accessibility Shortcuts

The Accessibility Shortcuts provide access to the accessibility functions. To display the Accessibility Shortcuts, press and hold the Volume button for 1 second or more. You can easily turn on or turn off the functions such as Voice Guide, Audio Description, High Contrast, Greyscale, Colour Inversion, Enlarge, Learn TV Remote, Menu Learning Screen, Subtitle, Multi-output Audio, etc.

- Even if the Voice Guide is set to Off or muted, the voice guide for Accessibility Shortcuts is enabled.
- 🖉 This function may not be supported depending on the model or geographical area.

Enabling voice guides for the visually impaired

Settings > General > Accessibility > Voice Guide Settings (ry Now

You can activate voice guides that describe the menu options aloud to aid the visually impaired. To activate this function, set **Voice Guide** to **On**. With **Voice Guide** on, the TV provides voice guides for channel change, volume adjust, information on current and upcoming programmes, schedule viewing, other TV functions, various content in the **Internet**, and in **Search**.

You can go to Voice Guide and press the Select button to turn the function on or off.

- The Voice Guide is provided in the language that is specified on the Language screen. However, some languages are not supported by Voice Guide even though they are listed in the Language screen. English is always supported.
- For more information about the TV language settings, refer to "<u>Changing the menu language</u>".

Changing the volume, speed, and pitch of the Voice Guide

You can configure the volume, speed, and pitch of the voice guide.

Audio Description

Settings > General > Accessibility > Audio Description Settings (Ty Now)

You can use the Audio Stream for the Audio Description (AD) which is sent along with the Main audio from the broadcaster. Adjust the audio description volume using Audio Description Volume.

This function is only available on digital channels.

• Audio Description

Turns the audio description function on or off.

• Audio Description Volume

Adjusts the audio description volume.

White text on black background (high contrast)

Settings > General > Accessibility > High Contrast (TY Now)

You can change Smart Hub and setting menu screens to white text on a black background or change the transparent TV menus to opaque so that text can be more easily read. To activate this function, set High Contrast to On.

🖉 If High Contrast is on, some Accessibility menus are not available.

Setting the screen to a black and white tone

> 🕸 Settings > General > Accessibility > Greyscale (ry Now

You can change the colour of the TV screen to a black and white tone to sharpen blurred edges caused by colours.

- If Greyscale is on, some Accessibility menus are not available.
- 🖉 This function may not be supported depending on the model or geographical area.

Inverting the screen colour

Settings > General > Accessibility > Colour Inversion (ry Now)

You can invert the colours of the text and background displayed on the TV screen to make it easier to read them.

- If Colour Inversion is on, some Accessibility menus are not available.
- 🖉 This function may not be supported depending on the model or geographical area.

Enlarging the font (for the visually impaired)

Settings > General > Accessibility > Enlarge (ry Now)

You can enlarge the size of the font on the screen. To activate this function, set **Enlarge** to **On**.

Learning about the remote control (for the visually impaired)

Settings > General > Accessibility > Learn TV Remote (Ty Now)

This function helps individuals with a visual impairment to learn the positions of the buttons on the remote control. When this function is activated, you can press a button on the remote control and the TV will tell you its name. Press the S button twice to exit Learn TV Remote.



Learning about the TV menu

Settings > General > Accessibility > Menu Learning Screen (Try Now)

Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

This function is only available when **Voice Guide** is enabled.

Watching TV broadcasts with subtitles

Settings > General > Accessibility > Subtitle Settings (ry Now)

Set Subtitle to On. Then you can watch the programme with the subtitle displayed.

- This function may not be supported depending on the model or geographical area.
- The TV cannot control or modify DVD or Blu-ray subtitles. To control DVD or Blu-ray subtitles, use the sub-title feature of the DVD or Blu-ray player and the player's remote control.
- Subtitle

Turns on or off the subtitle.

• Subtitle Mode

Sets the subtitle mode.

• Subtitle Language

Sets the subtitle language.

The TV cannot control or modify DVD or Blu-ray subtitles. To control DVD or Blu-ray subtitles, use the subtitle feature of the DVD or Blu-ray player and the player's remote control.

Selecting the broadcasting subtitle language

You can select the default subtitle language. The list may vary depending on the broadcast.

• Primary Subtitle Language

Sets the primary subtitle language.

• Secondary Subtitle Language

Sets the secondary subtitle language.

Listening to the TV through Bluetooth devices (for the hearing impaired)

Settings > General > Accessibility > Multi-output Audio

You can turn on both the TV speaker and Bluetooth devices at the same time. When this function is active, you can set the volume of the Bluetooth devices higher than the volume of the TV speaker.

- 🖉 This function may not be supported depending on the model or geographical area.
- When you connect Bluetooth devices to the TV, **Multi-output Audio** is activated. For more information about connecting Bluetooth devices to the TV, refer to "Listening to the TV through Bluetooth devices".

Configuring advanced system settings

- Settings > General > System Manager (Ty Now)
- Changing the menu language

Settings > General > System Manager > Language (ry Now)

Setting up a password

Settings > General > System Manager > Change PIN (ry Now)

The PIN input window appears. Enter a PIN. Enter it again to confirm it. The default PIN is "0000".

If you forget your PIN, you can reset it with your remote control. With the TV turned on, press the following buttons on the remote control in the order shown to reset the PIN to "0000".
 On the Samsung Smart Remote: Select VOL button. > Volume Up > < > Volume Down >

On the standard remote control: Select 🖏 button. > (┿) (Volume Up) > Select RETURN button. > (→) (Volume Down) > Select RETURN button. > (↔) (Volume Up) > Select RETURN button.

Selecting Usage or Retail Mode

> 🕸 Settings > General > System Manager > Usage Mode (ry Now

You can using the TV for retail environments by setting Usage Mode to Retail Mode.

- For all other uses, select **Home Mode**.
- 🖉 With Retail Mode, some functions are disabled, and the TV automatically resets itself after a preset amount of time.

Restoring the TV to the factory settings

You can restore all TV settings (excluding the Internet and network settings) to the factory defaults.

- 1. Select Reset. The security PIN entry window appears.
- 2. Enter the security PIN, and then select **Yes**. All settings are then reset. The TV turns off and on again automatically and displays the **Start Setup** screen.
- For more information on Start Setup, refer to the user manual that came with the TV.

HbbTV

Access services from entertainment providers, online providers and CE manufactures through HbbTV.

🖉 This function may not be supported depending on the model or geographical area.

Some channels may not include the HbbTV service.

In some countries, HbbTV is disabled by default. In this case, HbbTV can be used by installing the HbbTV application (the HbbTV Installer Application) from Samsung APPS.

To set the HbbTV automatic start to on or off, access \bigcirc > \bigotimes Settings > Broadcasting > Expert Settings > HbbTV Settings and set HbbTV to on or off. (Depending on the geographical area.)

If you want this function enabled or disabled, use the Select button to turn it on or off.

- HbbTV is not available when Timeshift is running or when a recorded video is being played back.
- An application on HbbTV may malfunction temporarily depending on the circumstances of the broadcast station or application provider.
- An application on HbbTV usually operates only when the TV is connected to an external network. The application may malfunction depending on the network conditions.
- When the HbbTV application is installed and the broadcasting programme supports HbbTV, a red button appears on the screen.
- It is possible to use both Digital Teletext and Traditional Teletext in several limited channels by pressing the TTX/MIX button on the remote control in a toggling manner.

With the Samsung Smart Remote, press the 🔢 or 123 button and then select TTX/MIX on the pop-up list.

- When you press the TTX/MIX button once in HbbTV mode, digital TTX mode of HbbTV is activated.
- When you press the TTX/MIX button twice in HbbTV mode, Traditional Teletext mode is activated.

Teletext Feature

Learn how to use Teletext and run the functions provided by Teletext Service.

- This function is available only in the channel that supports the teletext service.
- This function may not be supported depending on the model or geographical area.
- To enter the Teletext feature,
 - On the Samsung Smart Remote: Press the 🔂 or 123 button and then select TTX/MIX on the pop-up list.

On the standard remote control: Press the E/@ TTX/MIX button.

To exit from the Teletext feature,

On the Samsung Smart Remote: Press the **TTX/MIX** button on the pop-up list until a live TV programme appears.

On the standard remote control: Press the ATX/MIX button on the remote control until live TV appears.

The index page of the Teletext service gives you information on how to use the Service. For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



You can change Teletext pages by select numeric using your remote control.

On the Samsung Smart Remote

TTX/MIX (Full TTX / Double TTX / Mix / Live TV): The teletext mode is activated in the channel that is being watched. Each time you press the TTX/MIX button, the teletext mode changes in the order of Full TTX \rightarrow Double TTX \rightarrow Mix \rightarrow Live TV.

- Full TTX: The teletext mode appears on the full screen.
- **Double TTX**: The teletext mode appears on the half screen along with the currently viewed channel on the other half.
- Mix: The teletext mode appears transparently on the currently viewed channel.
- Live TV: It returns to the live TV screen.

Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by coloured buttons. Press the colour corresponding to the topic of your choice. A new colour coded page appears. Items can be selected in the same way. To display the previous or next page, select corresponding coloured button.

(Index: Displays the index (contents) page at any time while you are viewing Teletext.

Sub Page: Displays the available sub-page.

E. List/Flof: Selects the Teletext mode. If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the E (Store) button.

■ Store: Stores the Teletext pages.

Displays the next Teletext page.

🖭 Page Down: Displays the previous Teletext page.

Reveal/Conceal: Displays or hides the hidden text (answers to quiz games, for example). To display the normal screen, press it again.

Size: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.

(IF) Hold: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.

(I) Cancel: Shrinks the Teletext display to overlap with the current broadcast.

On the standard remote control

On the standard remote control, the Teletext function icons are printed on some remote control buttons. To run a Teletext function, find its icon printed on a remote control button, and then press the found button.

ITX/MIX

Full TTX / **Double TTX** / **Mix** / **Live TV**: The teletext mode is activated in the channel that is being watched. Each time you press the \bigcirc / \bigcirc button, the teletext mode changes in the order of **Full TTX** \rightarrow **Double TTX** \rightarrow **Mix** \rightarrow **Live TV**.

- Full TTX: The teletext mode appears on the full screen.
- **Double TTX**: The teletext mode appears on the half screen along with the currently viewed channel on the other half.
- Mix: The teletext mode appears transparently on the currently viewed channel.
- Live TV: It returns to the live TV screen.

Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by coloured buttons. Press the colour corresponding to the topic of your choice. A new colour coded page appears. Items can be selected in the same way. To display the previous or next page, select corresponding coloured button.

■ SETTINGS

Index: Displays the index (contents) page at any time while you are viewing Teletext.

■ PRE-CH

Sub Page: Displays the available sub-page.

E... SOURCE

List/Flof: Selects the Teletext mode. If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the 🖅 (Store) button.

E CH LIST

Store: Stores the Teletext pages.

🖃 CH 🔨

Page Up: Displays the next Teletext page.

13 CH 🗸

Page Down: Displays the previous Teletext page.

E? INFO

Reveal/Conceal: Displays or hides the hidden text (answers to quiz games, for example). To display the normal screen, press it again.

(≡) E-MANUAL / REC

Depending on the model or geographical area.

Size: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.

E∄ RETURN

Hold: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.

≣X) EXIT

Cancel: Shrinks the Teletext display to overlap with the current broadcast.

Typical Teletext page

ABCD
E
F

Part	Contents
А	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

Troubleshooting

If you have a problem with your TV, you can access various solutions while watching TV. If your problem is not addressed in the Troubleshooting section, contact the Samsung Call Centre.

Getting Support

Get help directly from Samsung if you have a problem with your TV.

Getting support through Remote Management

Settings > Support > Remote Management (ry Now

After consenting to our service agreement, you can use **Remote Management** to access Remote Support and have a Samsung service technician diagnose your TV, correct problems, and update your TV's software remotely via the web. You can also turn **Remote Management** on and off.

This function requires an Internet connection.

You can also start **Remote Management** function by pressing and holding the n button for 5 or more seconds.

What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely:

- Diagnose your TV
- Adjust the TV settings for you
- Perform a factory reset on your TV
- Install recommended firmware updates

How does Remote Support Work?

You can easily get Samsung Remote Support service for your TV:

- 1. Call the Samsung Contact Centre and ask for remote support.
- 2. Open the menu on your TV and go to the Support section. ()> 🕸 Settings > Support)
- 3. Select **Remote Management**, then read and agree to the service agreements. When the PIN screen appears, provide the PIN number to the technician.
- 4. The technician will then access your TV.

Finding the contact information for service

Settings > Support > About This TV (TY NOW)

You can view the address of the Samsung website, the call centre phone number, your TV's model number, your TV's software version, Open Source Licence and other information you may need to get service support from a Samsung call agent or the Samsung website.



- You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the button for 5 or more seconds. For standard remote control, press and hold the (Play) button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

Requesting service

Settings > Support > Request Support (ry Now)

You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, and then select **Request Now** or **Schedule Appointment** > **Request** > **Send**. Your service request will be registered. The Samsung Contact Centre will contact you to set up or confirm your service appointment.

- 🖉 You must agree to the terms and conditions for the service request.
- 🖉 This function may not be supported depending on the geographical area.
- 🧷 This function requires an Internet connection.

Diagnosing TV operational issues

You can diagnose issues with your TV and Smart Hub and run reset functions.

Settings > Support > Self Diagnosis (TY Now)

You can use the **Picture Test** to help diagnose video issues and the **Sound Test** to diagnose sound issues. You can also view signal strength information for over-the-air digital signals, test the Smart Hub Internet connection, and run the Smart Hub and TV factory reset functions.

- Start Picture Test
- Start Sound Test
- Signal Information
- Start Smart Hub Connection Test
- Reset Smart Hub
- Reset

There Is a Problem with the Picture

When the TV has trouble with the picture, these steps may help resolve the problem.

Testing the picture

Settings > Support > Self Diagnosis > Start Picture Test (ry Now)

Before you review the list of problems and solutions below, use **Start Picture Test** to determine if the problem is caused by the TV. **Start Picture Test** displays a high definition picture you can examine for flaws or faults.

The problem	Try this!
Flickering and Dimming	 If your Samsung Television is flickering or dimming sporadically, you may need to disable some of the energy efficiency features. Disable Ambient Light Detection, Energy Saving Mode, or Motion Lighting. (m) > (2) Settings > General > Eco Solution > Ambient Light Detection (m) > (2) Settings > General > Eco Solution > Energy Saving Mode (m) > (2) Settings > General > Eco Solution > Motion Lighting
Component Connections/ Screen Colour	 If the colour on your TV screen is not correct or the black and white colours are off, run Start Picture Test. > S Settings > Support > Self Diagnosis > Start Picture Test If the test results indicate that the problem is not caused by the TV, do the following: Confirm that the video input connectors are connected to the correct external device video output connectors. Check the other connections as well. If the TV is connected to an external device via a component cable, confirm that the Pb, Pr, and Y jacks are plugged into their proper connectors.
Screen Brightness	If the colours on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first.

The problem	Try this!
Blurring, or Juddering	If you notice blurring or juddering on the screen, use the Auto Motion Plus Settings function to resolve the issue.
	
	If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions.
	See if Sleep Timer has been enabled. The Sleep Timer automatically turns the TV off after a specified period of time.
Unwanted Powering Off	•
	If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.
	
	
	If you are having problems powering on your TV, there are a number of things to check before calling the service department.
Problems Powering On	Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally.
	Make sure that the antenna cable or cable TV cable is firmly connected.
	If you have a cable box or satellite box, confirm that it is plugged in and turned on.
	If your TV is not connected to a cable box or satellite box, run Auto Tuning.
Unable to find a Channel	
	The Auto Tuning Settings may not appear depending on the model or geographical area.
	Store displays are tuned to a digital HD channel.
	If you have an analogue cable box or satellite box, upgrade to a digital cable box or satellite box. Use HDMI or Component cables to deliver HD (high definition) picture quality.
	Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting HD content.
The TV image does not look as good as it did in the store.	Cable/Satellite Subscribers: Try HD channels from the channel lineup.
	• Terrestrial/Cable Antenna Connection: Try HD channels after running the Auto Tuning function.
	
	Ine Auto Tuning Settings may not appear depending on the model or geographical area.
	Adjust the cable box or satellite box's video output resolution to 1080i or 720p.

The problem	Try this!
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures from sports programmes and action movies. If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction. Mobile phones used close to the TV (within 1 m) may cause noise on analogue and digital channels.
The colour is wrong or missing.	If you're using a Component connection, make sure that the Component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
The colour is poor or the picture is not bright enough.	Go to Picture and then adjust the Picture Mode, Brightness, Sharpness, and Colour settings. (a) > (b) Settings > Picture > Picture Mode (a) > (b) Settings > Picture > Expert Settings > Brightness (a) > (b) Settings > Picture > Expert Settings > Sharpness (a) > (b) Settings > Picture > Expert Settings > Colour See if Energy Saving Mode has been enabled. (b) > (b) Settings > General > Eco Solution > Energy Saving Mode Try resetting the picture. (c) > (b) Settings > Picture > Expert Settings > Reset Picture
There is a dotted line on the edge of the screen.	Change Picture Size to 16:9 Standard. •
The picture is black and white.	 If you are using AV or analogue equipment, disconnect the adapter from the Component (Blue) input port on the TV and connect it to the AV (Yellow) input port.

If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Centre for assistance.

If the test picture is displayed properly, there may be a problem with an external device. Please check the connections.

If the problem persists, check the signal strength or refer to the external device's user manual.

I Can't Hear the Sound Clearly

When the TV has difficulties with sound, these steps may help resolve the problem.

Testing the sound

> 🕸 Settings > Support > Self Diagnosis > Start Sound Test (Try Now

If the TV plays the **Start Sound Test** melody without distortion, there may be a problem with an external device or the broadcast signal's strength.

The problem	Try this!
There is no sound or the sound is too low at maximum volume.	Check the volume control of your TV, and then check the volume control of the external device (cable box or satellite box, DVD, Blu-ray, etc.) connected to your TV.
	 Set Sound Output to TV Speaker. Settings > Sound > Sound Output
The picture is good but there	If you are using an external device, check the device's audio output option. For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.
is no sound.	To listen to computer sound, connect an external speaker to the computer's audio output connector.
	If your TV has a headphone jack, make sure there is nothing plugged into it.
	Reboot the connected device by disconnecting and then reconnecting the device's power cable.
No sound is heard.	Check whether the Digital Output Audio Format is set to Dolby Digital+. If you are using a receiver that does not support Dolby Digital Plus, you will hear no sound when you select Dolby Digital+.
	 Settings > Sound > Expert Settings > Digital Output Audio Format > Dolby Digital+
	Run Start Sound Test.
	
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device.
	For antenna or cable connections, check the signal information. A low signal level may cause sound distortions.

There Is a Problem with the Broadcast

When the TV has difficulties receiving broadcasts, these steps may help resolve the problem.

The problem	Try this!
"Weak or No Signal" displayed in TV mode/cannot find channel.	 Make sure the antenna cable is connected securely to the TV. Select Source to confirm that the correct input source has been selected. If the TV is not connected to a cable box or satellite box, run Auto Tuning to search for channels. State Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning The Auto Tuning Settings may not appear depending on the model or geographical area.
The TV is not receiving all channels.	 Confirm that the coaxial cable is securely connected to the TV. Run Start Setup or Auto Tuning.
There are no subtitles with digital channels.	 Go to Subtitle and change the Subtitle Mode. Source Subtitle Settings > General > Accessibility > Subtitle Settings > Subtitle > Subtitle Mode. Some channels may not have subtitle data.
The picture is distorted.	The compression of the video content may cause picture distortions. This is especially true with fast moving pictures from sports programmes and action movies. A weak signal can cause picture distortions. This is not a problem with the TV.
The picture quality is low.	Select high definition (HD) channels or programmes.

My Computer / Game Console Won't Connect

When the TV has difficulties connecting to a PC or game console, these steps may help resolve the problem.

The problem	Try this!
The "Mode Not Supported" message appears.	Set output resolution of your PC or game console so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC. If you are using an HDMI-to-DVI cable, a separate audio cable is required. Note that the HDMI-to-DVI connection is only supported by the HDMI (DVI) port and does not transmit audio. To listen to the computer sound, connect external speakers to the audio output connection of the computer.

The TV Won't Connect to the Internet

When the TV has difficulties connecting to the Internet, these steps may help resolve the problem.

The problem	Try this!
The TV cannot connect to your network or apps (for Internet compatible models only).	 Make sure the TV has a network connection. Settings > General > Network > Network Status Contact your Internet service provider.
The wireless network connection failed.	Confirm your wireless modem/router is on and connected to the Internet.
The wireless network signal is too weak.	Position your wireless router, modem router, or access point in a central location. Avoid putting it in a corner. Use a wireless repeater to get an instant boost in your wireless signal strength. Place the repeater halfway between your wireless router and your TV.

The Schedule Recording/Timeshift Function Isn't Working

When Timeshift or Schedule recording aren't working, these steps may help resolve the problem.

The problem	Try this!
Schedule Recording cannot be used.	Check if there is a USB device connected to the TV. Recording will automatically stop if the signal becomes too weak. Check the free space on the USB device. The function will not work if there isn't enough storage space on the USB device.

This function may not be supported depending on the model or geographical area.

Anynet+ (HDMI-CEC) Isn't Working

When Anynet+ (HDMI-CEC) isn't working, these steps may help resolve the problem.

The problem	Try this!
Anynet+ does not work.	 Confirm that the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Check if the power cord of the Anynet+ device is properly connected. Check the cable connections of the Anynet+ device. Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On.
l want to start Anynet+.	 Move the focus to the Anynet+ device at Source, press the up directional button to move to Anynet+, and then press the Select button. Check if the Anynet+ device is properly connected to the TV, and then select Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On. Settings > General > External Device Manager > Anynet+ (HDMI-CEC)
I want to exit Anynet+.	Set Anynet+ (HDMI-CEC) to Off. •

The problem	Try this!
The message "Connecting to Anynet+ device" or "Disconnecting from Anynet+ device" appears on the screen.	You cannot use the remote control when the TV is configuring Anynet+ or switching to a viewing mode. Use the remote control after the TV has completed the Anynet+ configuration or has switched to a viewing mode.
The Anynet+ device won't play.	You cannot use the play function when Start Setup is in progress.
The connected device is not displayed.	Check whether the device supports Anynet+. Check whether the HDMI cable is properly connected. Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On. •
The TV audio is not being played through the AV receiver.	Connect an optical cable to the TV and the AV receiver. ARC enables the TV to output digital sound via the HDMI (ARC) port. However, ARC is only available when the TV is connected to an AV receiver that supports ARC.

I Have Trouble Launching/Using Apps

When apps aren't working, these steps may help resolve the problem.

The problem	Try this!		
I launched an app, but it's in English. How can I change the language?	Languages supported by the app may be different from the user interface language. The ability to change the language depends on the service provider.		
My application is not working.	Check with the service provider. Refer to the Help section on the application service provider's website.		

My File Won't Play

When files aren't playing, this may help resolve the problem.

The problem	Try this!	
Some files can't be played.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.	

I Want to Reset the TV

Initialise the settings to factory defaults.

Reset	Path	Description	
Reset Settings	 Support > Self Diagnosis Reset 	Resets Picture , Sound , Broadcasting , and all other settings, except for the network settings, to the default settings.	
Reset Smart Hub	 Support > Self Diagnosis Reset Smart Hub 	Resets all Smart Hub settings to their factory defaults and deletes all information related to Samsung accounts, linked service accounts, Smart Hub service agreements, and Smart Hub applications.	
Reset Picture	 A Settings > Picture > Expert Settings > Reset Picture 	Resets current picture settings.	
Reset Sound	 > I Settings > Sound > Expert Settings > Reset Sound 	Resets current sound settings.	

Other Issues

Use these procedures to resolve other issues that may occur.

The problem	Try this!		
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top of the TV. The bottom, however, may feel hot to the touch after extended use. Children watching TV need constant adult supervision to prevent them from touching the TV. This heat, however, is not a defect and does not affect the TV's functionality.		
The picture won't display in full screen.	 HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content. Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or set the TV to full screen. 		
The "Mode Not Supported" message appears.	The output resolution of the attached device is not supported by the TV. Check the TV's supported resolutions and adjust the external device's output resolution accordingly.		
The Subtitles item in the TV is greyed out.	When an external device is connected with an HDMI or Component cable, the Subtitle function is unavailable. Adjust the subtitle setting on the external device.		
The TV smells of plastic.	This smell is normal and will dissipate over time.		
Signal Information under Self Diagnosis isn't activated.	 Verify that the current channel is a digital channel. Signal Information is only available for digital channels. 		
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.		
The stand is wobbly or crooked.	Make sure the indicator arrows on the stand and stand holder are properly aligned.		
The remote control and/or voice control does not work.	The TV ships with protective stickers covering some of the sensors. Make sure all of the stickers have been removed.		

The problem	Try this!		
The Broadcasting function has been deactivated.	 Broadcasting is only available when the Source is set to TV. Broadcasting cannot be accessed while you watch TV using a cable box or satellite box. Broadcasting cannot be accessed while a recording is in progress or the Timeshift function is running. 		
The settings are lost after 5 minutes or every time the TV is turned off.	If Usage Mode is set to Retail Mode, the TV's audio and video settings are automatically reset every 5 minutes. Change Usage Mode to Home Mode. •		
A POP (TV's internal banner ad) appears on the screen.	Change Usage Mode to Home Mode. ●		
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.		
The TV is making a humming noise.	Your TV utilises high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV. Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.		
The software update over the Internet has failed. Check the network connection status. If the TV is not connected to a network, connect it to a network. The upgrade stops if you already have the latest software version.			

Precautions and Notes

You can get instructions and information that you must read after installation.

Before Using the Recording and Timeshift Functions

Read these instructions before using Recording and Timeshift.

This function may not be supported depending on the model or geographical area.

Before using the recording and schedule recording functions

- Recording may not be supported depending on the model or geographical area.
- To set up a Schedule Recording, you must first set the TV's clock. Set the Clock.

- no > 10 Settings > General > System Manager > Time > Clock

- You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.
- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit has been replaced.
- A USB hard drive with a speed of 5,400 rpm or above is recommended. However, RAID-type USB hard drives are not supported.
- USB memory sticks are not supported.
- The total recording capacity may differ with the amount of available hard drive space and the recording quality level.

- Schedule Recording requires at least 100 MB of free space on the USB storage device. Recording will stop if the available storage space falls below 50 MB while recording is in progress.
- If the available storage space falls below 500 MB while both the Schedule Recording and Timeshift functions are in progress, only the recording will stop.
- The maximum recording time is 720 minutes.
- Videos are played according to the TV settings.
- If the input signal is changed while recording is in progress, the screen will go blank until the change is made.
 In this case, recording will resume, but

 will not be available.
- When using the Record or Schedule Recording function, the actual recording may start a second or two later than the specified time.
- If the Schedule Recording function is operating while a recording is being made on an HDMI-CEC external device, the priority is given to the Schedule Recording.
- Connecting a recording device to the TV automatically deletes abnormally saved recorded files.
- If the Sleep Timer or Auto Power Off has been set, the TV will override these settings, continue to record, and turn off after the recording has ended.

Before using the timeshift function

- 🖉 Timeshift may not be supported depending on the model or geographical area.
- A USB hard drive with a speed of 5,400 rpm or above is recommended. However, RAID-type USB hard drives are not supported.
- USB memory sticks or flash drives are not supported.
- The total recording capacity may differ with the amount of available hard drive space and the recording quality level.
- If the available storage space falls below 500 MB while both the Schedule Recording and Timeshift functions are in progress, only the recording will stop.
- The maximum amount of time available for the Timeshift function is 90 minutes.
- The Timeshift function is not available for locked channels.
- Time-shifted videos are played according to the TV settings.
- The Timeshift function may be terminated automatically once it reaches its maximum capacity.
- The Timeshift function requires at least 1.5 GB of free space available on the USB storage device.

Supported broadcasting audio options

Check the supported broadcasting audio options.

	Audio Type	Dual Sound	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo, Mono	Automatic change
	Dual	Dual I, Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono, Stereo	Automatic change
	Dual	Mono, Dual I, Dual II	Dual I

If the Stereo signal is too weak and an automatic switching occurs, select Mono.

- Available only for the stereo signals.
- Available only when the input source is set to TV.

Read Before Using Apps

Read this information before using Apps.

- Due to the product characteristics featured on Samsung Smart Hub, as well as limitations in available content, certain features, applications, and services may not be available on all devices or in all territories. Visit http:// www.samsung.com for more information on specific device information and content availability. Services and content availability are subject to change without prior notice.
- Samsung Electronics takes no legal responsibility whatsoever for any interruption of app services caused by the service provider for any reason.
- Application services may be provided in English only and available content may differ with the geographical area.
- For more information about applications, visit the applicable service provider's website.
- An unstable Internet connection may cause delays or interruptions. In addition, applications may terminate automatically depending on the network environment. If this occurs, check your Internet connection and try again.
- Application services and updates may become unavailable.
- Application content is subject to change by the service provider without prior notice.
- Specific services may differ with the version of the application installed on the TV.
- An application's functionality may change in future versions of the application. If this occurs, run the application's tutorial or visit the service provider's website.
- Depending on the service provider's policies, certain applications may not support multitasking.

Read Before Using the Internet

Read this information before using the Internet.

- The Internet is not compatible with Java applications.
- File download is not supported.
- The Internet may not be able to access certain websites.
- The TV does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- With websites that have scrollable windows, scrolling a window can result in corrupted characters.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely with certain operating systems.
- The copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and colour selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently differs with the search conditions and the TV model.
- The web browsing speed will differ with the network environment.
- If the Clock has not been set, the browsing history will not be saved.

- The browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, it might not be possible to play certain video and audio files while playing HTML5 Video/Audio.
- Video sources from PC-optimised streaming service providers may not play properly on our proprietary Internet.

Read before setting up a wireless Internet connection

Precautions for wireless Internet

• This TV supports the IEEE 802.11 a /b /g /n /ac communication protocols. Samsung recommends using IEEE 802.11n. Video files stored on a device connected to the TV via a Home Network may not play back smoothly.

🖉 Some of the IEEE 802.11 communication protocols may not be supported depending on the model.

- To use wireless Internet, the TV must be connected to a wireless router or modem. If the wireless router supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently in use for the wireless router. If the channel set for the wireless router is currently being used by another device, the result is usually interference and/or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a password using characters and numbers. This password is then needed to connect to a security-enabled AP.

Wireless security protocols

The TV only supports the following wireless network security protocols.

- Authentication Modes: WEP, WPAPSK, WPA2PSK
- Encryption Types: WEP, TKIP, AES

The TV cannot connect to non-certified wireless routers.

In compliance with the newest Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode. If the wireless router supports WPS (Wi-Fi Protected Setup), you can connect the TV to your network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

Read Before Playing Photo, Video, or Music Files

Read this information before playing media content.

Limitations on use of photo, video, and music files (TY NOW)

- The TV supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the USB port. The TV may not be able to recognise a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.
- When connecting an external hard drive, use the USB (HDD) port. We recommend that you use an external hard drive with its own power adapter.
- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognise some or all the devices. USB devices that use high-power input should be connect to the USB [5V, 1A] port.
- The TV supports the FAT, exFAT, and NTFS file systems.
- After sorting files in the Folder view mode, the TV can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- Certain files, depending on how they are encoded, may not play on the TV.
- Certain files are not supported on all models.
- The UHD Video Pack content is not supported by the Samsung UHD TVs produced in 2017 or later.
- DivX and DTS codecs are not supported by the Samsung TV models released in 2018.

Supported external subtitles

Name	Format	
MPEG-4 Timed text	.ttxt	
SAMI	.smi	
SubRip	.srt	
SubViewer	.sub	
Micro DVD	.sub or .txt	
SubStation Alpha	.ssa	
Advanced SubStation Alpha	.ass	
SMPTE-TT Text	.xml	

Supported internal subtitles

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
VobSub	MKV
MPEG-4 Timed text	MP4
TTML in smooth streaming	MP4
SMPTE-TT TEXT	MP4
SMPTE-TT PNG	MP4

Supported image formats and resolutions

File extension	Format	Resolution
*.jpg *.jpeg	JPEG	15360 x 8640
*.png	PNG	4096 x 4096
*.bmp	BMP	4096 x 4096
*.mpo	МРО	15360 x 8640

The MPO format is supported partly.

Supported music formats and codecs

File extension	Format	Codec	Note
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channels
*.ogg	OGG	Vorbis	Supports up to 2 channels
*.wma	WMA	WMA	WMA is supported up to 10 Pro 5.1 channels, M2 profile. WMA1, WMA lossless / Voice are not supported.
*.wav	wav	wav	
*.mid *.midi	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	аре	ape	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

Video codecs supported by Q900R model series

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs														
		H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 3840 x 2160: 60	60															
		HEVC (H.265 - Main, Main10)	7680 x 4320	60	100															
*.avi *.mkv		Motion JPEG	3840 x 2160	30	80															
*.asf *.wmv		MVC				Dolby Digital LPCM														
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP				ADPCM(IMA, MS) AAC														
*.3gp *.vro	ASF MP4	Window Media Video v9 (VC1)	60	60		HE-AAC WMA														
*.mpg *.mpeg *.ts	mpeg MOV *.ts FLV *.tp VRO c.trp VOB mov PS *.flv TS .vob SVAF c.svi m2ts	MPEG2				Dolby Digital Plus MPEG(MP3)														
*.tp		VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	MPEG1	1920 x 1080		20	MPEG-H AC-4
*.mov *.flv																Microsoft MPEG-4 v1, v2, v3	-			G.711(A-Law, μ-Law)
*.vob *.svi																SVAF	SVAF	SVAF	SVAF	SVAF
*.m2ts *.mts		H.263 Sorrenson	-																	
		VP6																		
*.webm	*.webm WebM	VP8	1920 x 1080	60	20	Vorbis														
		VP9 (Supported up to profile 0, profile 2)	3840 x 2160	3840 x 2160: 60	80															
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6														

Because the specifications are based on the current 8K connectivity and decoding standards, future connectivity, broadcasting, and decoding standards may not be supported. Upgrading for meeting future standards may require purchase of additional devices.

Some 3rd party standards may not be supported.

Video codecs supported by NU7100 model series or higher

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs											
		H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 3840 x 2160: 60	60												
		HEVC (H.265 - Main, Main10)		60	80												
*.avi *.mkv		Motion JPEG	3840 x 2160	30	80												
*.asf *.wmv		MVC				Dolby Digital LPCM											
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP			60	ADPCM(IMA, MS) AAC											
*.3gp *.vro	ASF MP4	ASF Window Media Video v9 (VC1)	60	60		HE-AAC WMA Dolby Digital Plus MPEG(MP3)											
*.mpg *.mpeg * ts	mpeg MOV *.ts FLV *.tp VRO f.trp VOB mov PS *.flv TS .vob SVAF f.svi m2ts	MPEG2															
*.tp *.trp		VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO	VRO	VRO	VRO	VRO	VRO	MPEG1	1920 x 1080		20	MPEG-H AC-4
*.mov *.flv							Microsoft MPEG-4 v1, v2, v3				G.711(A-Law, μ-Law)						
*.vob *.svi																SVAF	SVAF
*.m2ts *.mts		H.263 Sorrenson															
		VP6															
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis											
		VP9 (Supported up to profile 0, profile 2)	3840 x 2160	3840 x 2160: 60	80												
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6											

Video codecs supported by NU7090 model series or lower

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs															
		H.264 BP/MP/HP	3840 x 2160	3840 x 2160: 30 1920 x 1080: 60	50																
		HEVC (H.265 - Main, Main10)		60	50																
*.avi *.mkv		Motion JPEG																			
*.asf *.wmv	asf	MVC	-			Dolby Digital LPCM															
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP				ADPCM(IMA, MS) AAC															
*.3gp *.vro	ASF MP4	ASF Window Media Video v9 (VC1) MP4		60		HE-AAC WMA															
*.mpg *.mpeg *.ts	eg MOV FLV VRO VOB V PS TS SVAF	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	MOV FLV VRO VOB PS TS	FLV VRO	MPEG2	1920 x 1080		20	Dolby Digital Plus MPEG(MP3)							
*.tp *.trp										VRO	VRO	VRO	VRO	VRO	VRO	MPEG1				MPEG-H AC-4	
*.mov *.flv									Microsoft MPEG-4 v1, v2, v3				G.711(A-Law, µ-Law)								
*.vob *.svi									SVAF	SVAF	SVAF	SVAF	SVAF	SVAF	SVAF	SVAF	Window Media Video v7 (WMV1), v8 (WMV2)	_	30		OPUS
*.m2ts *.mts														H.263 Sorrenson	-	50					
		VP6																			
*.webm	*.webm WebM	VP8	1920 x 1080		20	Vorbis															
		VP9 (Supported up to profile 0, profile 2)	3840 x 2160	60	50																
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080		20	RealAudio 6															

Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

Video decoders

- H.264 UHD is supported up to Level 5.1, and H.264 FHD is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- HEVC UHD is supported up to Level 5.1, and HEVC FHD is supported up to Level 4.1.
- HEVC 8K is supported up to Level 6.1.
 - 🥒 This specification is only applicable to the Q900R model series.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB / WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 KHz, and differ with the codec.

Read After Installing the TV

Read this information after installing the TV.

Picture sizes and input signals

The **Picture Size** settings are applied to the current source. The applied **Picture Size Settings** will remain in effect whenever you select that source unless you change them.

Input signal	Picture size
Component	16:9 Standard, Custom, 4:3
Digital channel (720p)	16:9 Standard, Custom, 4:3
Digital channel (1080i, 1080p)	16:9 Standard, Custom, 4:3
Digital channel (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
Digital channel (3840 x 2160p @ 50/60 Hz)	16:9 Standard, Custom
Digital channel (4096 x 2160p)	16:9 Standard, Custom
HDMI (720p)	16:9 Standard, Custom, 4:3
HDMI (1080i, 1080p)	16:9 Standard, Custom, 4:3
HDMI (3840 x 2160p)	16:9 Standard, Custom
HDMI (4096 x 2160p)	16:9 Standard, Custom
*HDMI (7680 x 4320p @ 30 Hz)	16:9 Standard, Custom
USB (720p)	16:9 Standard, Custom, 4:3
USB (1080i/p @ 60 Hz)	16:9 Standard, Custom, 4:3
USB (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
USB (3840 x 2160p @ 60 Hz) USB (4096 x 2160p @ 24/30/60 Hz)	16:9 Standard, Custom
*USB (7680 x 4320p @ 24/30/60 Hz)	16:9 Standard, Custom

ℰ *: This input signal is only supported by Q900R model series.

Installing an anti-theft lock

An anti-theft lock is a physical device that can be used to protect the TV against theft. Look for the lock slot on the back of the TV. The slot has a \overrightarrow{R} icon next to it. To use the lock, wrap the lock cable around an object that is too heavy to carry and then thread it through the TV's lock slot. The lock is sold separately. The method of using an anti-theft lock may differ for each TV model. Refer to the lock's user manual for more information.

🖉 This function may not be supported depending on the model or geographical area.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

- Resolution: 3840 x 2160p, 4096 x 2160p
 - An HDMI connection with HDMI UHD Color set to Off supports up to UHD 50P/60P 4:2:0 input signals, while an HDMI connection with HDMI UHD Color set to On supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals.

If HDMI UHD Color is set to Off

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	-	-	-	0

If HDMI UHD Color is set to On

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
	8 bit	0	0	0	0
50 / 60	10 bit	-	-	0	0
	12 bit	-	-	0	0

Resolutions for 8K Input Signals supported by Q900R model series

Check the supported resolution for 8K input signals.

- Resolution: 7680 x 4320p
 - The HDMI 1 port connection supports 8K resolution only when HDMI UHD Color is set to On, and supports 4:2:0 8-bit 30 Hz input signals only.

If HDMI UHD Color is set to On

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
30	8 bit	-	-	-	0

Supported Resolutions for FreeSync

Check the supported resolution for the FreeSync function.

- Settings of FreeSync mode: Off / Ultimate (48~120 Hz) / Basic (90~120 Hz)
 - The supported FreeSync modes may differ depending on the external device.

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	SCAN
1920 x 1080	120 Hz	135.000	120.000	297.000	progressive

This function may not be supported depending on the model or geographical area.

Read Before Connecting a Computer (Supported Resolutions)

Check the supported resolution for PC input signals.

When you connect your TV to a computer, set the computer's video card to one of the standard resolutions listed in the tables below or on the next page. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolution is 3840 x 2160 at 60 Hz. Choosing a resolution not included in the tables can result in a blank screen or just the power indicator turning on. Refer to the user manual of your graphics card for compatible resolutions.

The native resolution is 3840 x 2160 at 60 Hz with the HDMI UHD Color set to On. The native resolution is 3840 x 2160 at 30 Hz with the HDMI UHD Color set to Off.

IBM

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 x 400	70 Hz	31.469	70.087	28.322	- / +

MAC

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	67 Hz	35.000	66.667	30.240	- / -
832 x 624	75 Hz	49.726	74.551	57.284	- / -
1152 x 870	75 Hz	68.681	75.062	100.000	- / -

VESA DMT

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	60 Hz	31.469	59.940	25.175	- / -
640 x 480	72 Hz	37.861	72.809	31.500	- / -
640 x 480	75 Hz	37.500	75.000	31.500	- / -
800 x 600	60 Hz	37.879	60.317	40.000	+ / +
800 x 600	72 Hz	48.077	72.188	50.000	+ / +
800 x 600	75 Hz	46.875	75.000	49.500	+ / +
1024 x 768	60 Hz	48.363	60.004	65.000	- / -
1024 x 768	70 Hz	56.476	70.069	75.000	- / -
1024 x 768	75 Hz	60.023	75.029	78.750	+ / +
1152 x 864	75 Hz	67.500	75.000	108.000	+ / +
1280 x 720	60 Hz	45.000	60.000	74.250	+ / +
1280 x 800	60 Hz	49.702	59.810	83.500	- / +
1280 x 1024	60 Hz	63.981	60.020	108.000	+ / +
1280 x 1024	75 Hz	79.976	75.025	135.000	+ / +
1366 x 768	60 Hz	47.712	59.790	85.500	+ / +
1440 x 900	60 Hz	55.935	59.887	106.500	- / +
1600 x 900	60 Hz	60.000	60.000	108.000	+ / +
1680 x 1050	60 Hz	65.290	59.954	146.250	- / +
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +

VESA CVT

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
2560 x 1440	120 Hz	182.996	119.998	497.750	+ / -

The resolution may not be supported depending on the model.

CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
3840 x 2160	30 Hz	67.500	30.000	297.000	- / -
*3840 x 2160	60 Hz	135.000	60.000	594.000	- / -
**1920 x 1080	100 Hz	112.500	100.000	297.000	+ / +
**1920 x 1080	120 Hz	135.000	120.003	297.000	+ / +

*: This resolution is only supported by HDMI 2.0 mode.

**: The resolution may not be supported depending on the model.

Supported Resolutions for Video Signals

Check the supported resolution for video signals.

CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 (1440) x 576i	50 Hz	15.625	50.000	27.000	- / -
720 (1440) x 480i	60 Hz	15.734	59.940	27.000	- / -
720 x 576	50 Hz	31.250	50.000	27.000	- / -
720 x 480	60 Hz	31.469	59.940	27.000	- / -
1280 x 720	50 Hz	37.500	50.000	74.250	+ / +
1280 x 720	60 Hz	45.000	60.000	74.250	+ / +
1920 x 1080i	50 Hz	28.125	50.000	74.250	+ / +
1920 x 1080i	60 Hz	33.750	60.000	74.250	+ / +
1920 x 1080	24 Hz	27.000	24.000	74.250	+ / +
1920 x 1080	25 Hz	28.125	25.000	74.250	+ / +
1920 x 1080	30 Hz	33.750	30.000	74.250	+ / +
1920 x 1080	50 Hz	56.250	50.000	148.500	+ / +
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +
3840 x 2160	24 Hz	54.000	24.000	297.000	+ / +
3840 x 2160	25 Hz	56.250	25.000	297.000	+ / +
3840 x 2160	30 Hz	67.500	30.000	297.000	+ / +

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
*3840 x 2160	50 Hz	112.500	50.000	594.000	+ / +
*3840 x 2160	60 Hz	135.000	60.000	594.000	+ / +
4096 x 2160	24 Hz	54.000	24.000	297.000	+ / +
4096 x 2160	25 Hz	56.250	25.000	297.000	+ / +
4096 x 2160	30 Hz	67.500	30.000	297.000	+ / +
*4096 x 2160	50 Hz	112.500	50.000	594.000	+ / +
*4096 x 2160	60 Hz	135.000	60.000	594.000	+ / +
**1920 x 1080	100 Hz	112.500	100.000	297.000	+ / +
**1920 x 1080	120 Hz	135.000	120.003	297.000	+ / +

ℰ *: This resolution is only supported by HDMI 2.0 mode.

✗ ★*: The resolution may not be supported depending on the model.

VESA CVT

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
2560 x 1440	120 Hz	182.996	119.998	497.750	+ / -

The resolution may not be supported depending on the model.

Read Before Using Bluetooth Devices

Read this information before using a Bluetooth device.

🖉 This function may not be supported depending on the model or geographical area.

Restrictions on using Bluetooth

- You can't use Bluetooth devices and the Wi-Fi Speaker Surround Setup feature simultaneously.
- Compatibility issues may occur, depending on the Bluetooth device. (A Mobile exclusive headphone may not be available, depending on the environment.)
- Lip-sync errors may occur.
- The TV and Bluetooth device may disconnect, depending on the distance between them.
- A Bluetooth device may hum or malfunction:
 - When a part of your body is in contact with the receiving/transmitting system of the Bluetooth device or the TV.
 - When the device is subject to electrical variation from obstructions caused by a wall, corner, or office partitioning.
 - When the device is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens, and wireless LANs.
- If the problem persists, we recommend you use a wired connection.
 - DIGITAL AUDIO OUT (OPTICAL) port
 - HDMI (ARC) port

Buttons and functions available while playing multimedia content

Review available media playback, control, and record buttons and descriptions of how they are used.

Press the Select button while playing any video, photo, or recorded content. The following buttons appear.

- 🖉 The provided buttons and functions may not be supported depending on the model or geographical area.
- The available buttons and functions may differ with the content you are viewing or playing.
- Pause / Play

Pauses or plays the multimedia content. You can use the following functions when the video is paused. Note that with the video paused, the TV does not play audio.

- Slow Rewind or Slow Forward: Allows you to play the video slowly backward or forward by selecting the

 or ▷ option. To change the playback speed in 3 levels, press the option repeatedly. To return to normal speed, select the ▷ option or press the
 outcome button.
- Jump Backward / Jump Forward

Press the up directional button to move the focus to the playback control bar, and then select the left or right directional button in the playback control bar to move backward or forward by 10 seconds in the video.

Move to a specific playback section, move up the focus on the playback bar, and then select one of the five thumbnails.

- This function may not be supported depending on the file format.
- Previous / Next

Displays the previous or the next multimedia content file.

• Rewind / Fast Forward

Rewinds or fast forwards the multimedia content. To increase the rewind or fast forward speed up to 3 times faster than normal, select the button repeatedly. To return to normal speed, select the > option or press the > button.

• 360 Auto Rotation

Automatically adjusts the video's viewing angle by analysing the amount of image changes during playback of a video file that provides a 360-degree view. When this function is started, the rotation starts in a short time.

- General
- Dynamic
- Natural
- The 360 Auto Rotation function does not work in General mode.
- This function may not be supported depending on the file format.
- Video files that use the mjpeg codec do not support a 360-degree view.
- When a video does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.
- Videos may be interrupted if 360 rotation is applied during double speed playback.
- Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

• 360 Mode

Provides a 360-degree view for videos and photos.

- This function may not be supported depending on the file format.
- Video files using the mjpeg codec do not support a 360-degree view.
- When a video or photo does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.
- Videos may be interrupted if 360 rotation is applied during double speed playback.
- Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

Repeat

Plays the current multimedia content repeatedly or all multimedia content files in the same folder repeatedly.

• Shuffle

Plays music files in random order.

• Picture Off

Plays multimedia content with the screen off.

• Fit to screen

Fits a photo to the screen.

• Zoom

Zooms in a photo.

• Rotate left / Rotate right

Rotates a photo left or right.

Background Music

During a slideshow, pauses or resumes the background music.

- Options
 - The available options may differ with the model and content.

Function	Description
Slideshow Speed	Sets the slideshow speed.
Slideshow Effect	Applies transition effects to the slide show.
Background Music	 Plays background music while the TV displays photos. The music files must be saved in the same USB device as the photo files. To pause the background music, select Background Music on the playback screen bottom.
Subtitles	Controls video subtitles. Subtitles: Turns the language of the subtitles on or off. Sync: Adjusts the synchronisation when the video and the subtitles are not synchronised. Reset Sync: Resets the subtitle synchronisation adjustment to 0. Size: Changes the font size of the subtitles. Encoding: Displays a list of encoding languages. Allows you to change the encoding language when subtitles are displayed incorrectly. Edge Type: Adjusts the position of text and subtitle edges. Edge Color: Changes the colour of subtitle edges.
Rotate	Rotates the video.
Audio Language	Changes the audio language you want to hear.
Information	Displays detailed information about the current multimedia content.

Suffix : Parental Rating - Thailand only

Alphabet	lcon	Description
Allow All		The broadcated rating value is not classified
Preschool	ដ ា+	Content suitable for preschool aged children 3-5 years old
Children	ତ୍ର ଜ ๖+	Content suitable for children between 6–12 years old
General	การ ทุกวัย	Content suitable for general audiences
PG 13 (PG-13)	<mark>√X</mark> ູ <mark>ໃ</mark>	Content suitable for people aged 13 and above, but can be watched by those who are under the recommended age if parental guidance is provided
PG 18 (PG-18)	<mark></mark> ມ +	Content suitable for people aged 18 and above, but can be watched by those who are under the recommended age if parental guidance is provided
Adults	ວ ເລພາະผู้ใหญ่	Content unsuitable for children and youngsters

Licence

Check the licence information and trademarks applied in your TV.

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Open Source License Notice

Open Source used in this product can be found on the following webpage. (http://opensource.samsung.com) Open Source License Notice is written only English.





🖉 This licence may not be supported depending on the model or geographical area.

Accessibility Guidance

Provides a menu and a remote control guide that aid the visually impaired.

Menu Learning Screen

Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

Using the Remote control

Guide for the Samsung Smart Remote.

🖉 The Samsung Smart Remote may not be supported depending on the model or geographical area.

Orientation of the Samsung Smart Remote

Hold the remote control with the buttons facing towards you. The remote is slightly thinner towards the top and thicker towards the bottom.

Description of the Samsung Smart Remote

From top to bottom and left to right:

- The 🙆 or 🗔 button is at the top left.
- There is a small LED at the right side of the 🌰 or 😱 button, but you cannot find it by touching with hand.
- Below the LED is a round button which is the 🕖 button.
- Of the two buttons below the 🕖 button on the Samsung Smart Remote that comes with the QLED TV, the left one is the 😰 button and the right one the 🔯 button.
- Of the two buttons below the 🔱 button on the Samsung Smart Remote that comes with the UHD TV or THE FRAME, the left one is the 123 button and the right one the 😡 button.

- Underneath these two buttons is the directional button which consists of a large outer circle with a round button in the middle.
- Underneath the directional button are two buttons on the left and right hand sides and another button at the centre. The one on the left is the button and the one on the right is the button. The round button in the middle is the button.
- Underneath the button are two thin horizontal buttons. These are more protruded than the other buttons on the remote control. The one on the left is the volume button and the one on the right is the channel button. Push up from beneath or down from above to use these as rocker buttons to change the channel or volume.
 - Briefly press the VOL button to mute the sound.
 - Press and hold the VOL button to open the Accessibility Shortcuts menu.
 - Briefly press the CH button to open the Guide or Channel List.
 - 🥒 This function may not be supported depending on the model or geographical area.

The colour buttons

If you press the 123 or 125 button while viewing a programme, the red, green, yellow, and blue options appear. If you press the 123 or 125 button and then press the Select button while viewing a programme, the Record, Timeshift, Stop (when Record or Timeshift is running), Info, and Move to the top (or Move to the bottom) options appear.

This function may not be supported depending on the geographical area.

The play/pause button

If you press the D button while watching a TV programme, the screen you are watching stops and a control bar appears. You can select **Rewind**, **Play**, **Pause**, **Fast Forward**, **Stop Timeshift**, **Record**, **Go to Live TV**, or **Info**. You can press the up directional button to go to the playback screen and check the time that the actual broadcast programme is running and the timeshift time.

- 🖉 This function may not be supported depending on the model or geographical area.
- You can use the **Slow Rewind** or **Slow Forward** functions when select the **Pause** option.
- 🖉 To use Record or Timeshift, you must connect a USB device.

Using the accessibility menu

View descriptions of accessibility menu functions.

🖉 This function may not be supported depending on the model or geographical area.

Accessibility Shortcuts menu

Press and hold the VOL button to display the Accessibility Shortcuts menu.

The Accessibility Shortcuts menu allows you to turn Voice Guide on or off by changing the settings. Voice Guide speaks the menu items displayed on the screen so that people who cannot see the screen can easily use the TV.

The menu contains a number of items including:

- Voice Guide: This function works on every screen on the TV and when turned on speaks to identify items displayed on screen. For example, it tells you the selected volume, the current channel and programme information. It also reads out the programme information in the Electronic Programme Guide (EPG).
- High Contrast: This function allows you to display all menus with an opaque black background and a white font, providing maximum contrast.
- Enlarge: This function enlarges important elements on the screen such as the names of programmes.
- Learn TV Remote: Learn the names and functions of the buttons on remote control. On this screen, pressing the power button (top left button) will turn off the TV, but when any other button is pressed the TV will say the button name and briefly tell what that button does. This teaching mode helps you to learn the location and operation of the buttons on the remote without affecting normal TV operation. Press the Solution twice to exit Learn TV Remote.
- Menu Learning Screen: Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

Opening the Accessibility Shortcuts menu

On the Samsung Smart Remote, there are two thin horizontal rocker buttons next to each other located slightly below the middle of the remote. The one on the left is the volume rocker button. Press and hold the volume rocker button to open the Accessibility Shortcuts menu.

If you press and hold the VOL button while Voice Guide is turned off, the Accessibility Shortcuts menu appears and Voice Guide starts. You can turn on or turn off the functions such as Voice Guide, Audio Description, High Contrast, Greyscale, Colour Inversion, Enlarge, Learn TV Remote, Menu Learning Screen, Subtitle, Multi-output Audio, and you can move to the Learn TV Remote and Menu Learning Screen pages.

Learn TV Remote and Menu Learning Screen are only available when Voice Guide is enable.

Using the Accessibility Shortcuts menu

To use the Accessibility Shortcuts menu, you will need to locate the Directional and Select buttons. To learn where the buttons are located, refer to Learn TV Remote menu.

Use the up and down directional buttons to move between the menu items. Press the Select button to turn on or turn off the function indicated by the menu where you are located. Again, use the up and down directional to move between options and press Select to choose an option. To close this menu, use the right directional button to get to the **Close** option and select this, or press the **Select** button.

Step by Step instructions to run the options

Turning on Voice Guide

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Voice Guide option.
- 3. Press the Select button on the remote to turn Voice Guide on or off.
- 4. Close the menu either by pressing 🕤 on the remote or by pressing the right directional button to highlight Close, and then pressing the Select button.

Turning on Audio Description

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Audio Description option.
- 3. Press the Select button on the remote to turn Audio Description on or off.
- 4. Close the menu either by pressing 🕤 on the remote or by pressing the right directional button to highlight Close, and then pressing the Select button.
- This function is only available when it is supported by the programme that is currently broadcasting.

Learning TV Remote

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Learn TV Remote option.
- 3. Press the Select button on the remote. You are now in the e-Manual and specifically on the Learn TV Remote page.
- 4. Press a button on the remote. The name and function of the button are heard.
- 5. When you have finished and want to exit the e-Manual, press the 🕤 button twice to exit Learn TV Remote.
- This function is only available when **Voice Guide** is enabled.

Accessing the main accessibility menu to change Voice Guide settings

You can also go to an accessibility menu from the TV settings menu. This provides more options, for example, to change the speed of Voice Guide.

The TV will not verbalise this menu unless Voice Guide is already turned on.

- 1. Press the 🝙 button.
- 2. Press the left directional button until you reach 🐼 Settings.
- 3. Press Select and a menu will open.
- 4. Press the down directional button to reach General, and then press Select to open this menu.
- 5. Use the directional buttons to go to the Accessibility menu, and then press Select to open this menu.
- 6. The menu will appear with Voice Guide Settings being the first menu. Highlight Voice Guide Settings, and then press Select.
- 7. A menu appears with the options to change Voice Guide and Volume, Speed, Pitch.
- 8. Select the menu using the directional buttons, and then press Select.

Setting accessibility settings using Voice Interaction

Voice Interaction lets you control your TV with voice commands spoken into the microphone built into the Samsung Smart Remote. To use **Voice Interaction**, the TV must be set up and tuned and must be connected to the Internet. You can connect the TV to the Internet during the initial setup or do it later through the settings menu.

There are many commands you can say to control the TV. These can be used together with Voice Guide to give you voice input and voice output.

To speak a command, press and hold the \bigcirc button (located near the top of the Samsung Smart Remote, directly below the LED power indicator and above the directional button) and say the command, and then release the \bigcirc button. The TV will confirm the command.

For example you can:

Turn Voice Guide on:

Press the 🕖 button on the Samsung Smart Remote and say "Voice Guide on".

Turn Audio Description on:

Press the 🕖 button on the Samsung Smart Remote, and then say "Audio Description on".

Turn High Contrast on:

Press the 🕕 button on the Samsung Smart Remote, and then say "High Contrast on".

Using the TV with Voice Guide on

You can turn on Voice Guide that describe the menu options aloud to aid the visually impaired.

Watching TV

Turning the TV on

Press the 🕐 or 🗔 button to turn the TV on.

🖉 🛛 When the TV turns on in the TV mode, voice guide will speak the channel name.

Changing channel

You can change the channel in a number of ways. Every time you change channels, the new channel details will be announced. The ways to change the channel are below.

• Channel List ()> Live TV > Channel List)

Press the
button on the remote to open Smart Hub, press the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the right directional button to move to Channel List, and then press the Select button.

- CH button: Of the two buttons that protrude from the centre of the Samsung Smart Remote, the right one is the CH button. Push up or pull down the CH button to change the channel.
- Use the number buttons directly or press the CH button on the standard remote control to change the channel.
- Use the 📆 or 123 button on the Samsung Smart Remote to display the virtual numeric pad on the screen.

Using on-screen number entry via the Samsung Smart Remote:

Use the virtual numeric pad to enter numbers e.g. to enter a channel number or to enter a PIN.

Press the 123 button on the Samsung Smart Remote and the virtual numeric pad with 2 rows appears on screen. Voice Guide speaks "virtual numeric pad, 6" which indicates that the number strip is on screen and the focus is on the number 6. This strip has the following buttons:

- On the bottom row: From the far left: TTX, 1 9, 0, -(dash), Delete, Move to the top (or Move to the bottom)
- The top row has one option, **Done**.

🖉 This function may not be supported depending on the model or geographical area.

Use the left and right directional buttons to move along the row, and then press Select to choose the numeric pad. When you have finished selecting all the numbers you need (for example, 123), press the up directional button to move to the **Done** option, and then press Select to finish.

When entering a channel number, you can enter the number, and then select the **Done** option on the top row or you can enter the channel number and wait. After a short while, the channel will change and the virtual number pad will disappear from the screen.

Changing volume

Use the VOL button on the left to change the volume. Every time you change the volume, the new volume level will be announced.

- VOL button: Of the two buttons that protrude from the centre of the Samsung Smart Remote, the left one is the VOL button. Push up or pull down the VOL button to change the volume.
- Press the VOL button on the standard remote control to adjust the volume.

Using programme information

When watching TV, press the Select button to view programme information which appears at the top of the screen. Voice Guide will say programme subtitles or audio descriptions if they are available. To view more detailed programme information, press and hold the Select button. Voice Guide will say more details such as a synopsis of the programme.

Press the left or right directional button to see what you can watch next on the same channel. Press the up or down directional button to move to other channels and to see which programmes are currently being broadcast on them.

Press 🕤 to go back or close the programme details.



Using the guide

See an overview of each channel's programme lineup.

When you want to know the programme information for each channel while watching a broadcast programme, press the CH button on the Samsung Smart Remote. Use the directional buttons to view the programme information.



On standard remote control, press the GUIDE button.

You can see the daily programme schedules for each broadcaster and programme information in the **Guide**. You can select programmes to schedule for viewing or recording.

You can also open the **Guide** using **Voice Interaction**. Press and hold the **O** button on your Samsung Smart Remote, and then say the command "**guide**".

- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 The information in the Guide is for digital channels only. Analogue channels are not supported.
- If the Clock is not set, the Guide is not provided. Set the Clock first. (Set the Clock first. (Set the Clock)
 Time > Clock)

If you need to set the clock again, follow the instructions below.

- 1. Press the 向 button to open Smart Hub.
- 2. Press the left directional button to move to 🔅 Settings.
- 3. Press the Select button to display the Settings menu screen.
- 4. Use the up and down directional buttons to move to the General menu, and then press the Select button.
- 5. Use the up and down directional buttons to move to the System Manager menu, and then press the Select button.
- 6. Select the Time menu, and then press the Select button.
- 7. Select the Clock menu, and then press the Select button.
- 8. Select the Clock Mode menu, press the Select button, and then select Auto or Manual.
 - 🖉 If you select Manual, you can move to the Date or Time menu below to set the time.

When you open the **Guide**, a table grid of channels and programmes is displayed. The top row displays **Channel Filter** then the day and times. Each row has a channel name on the left and programmes on that channel on the right.

In the Guide, use the up and down directional buttons to move between channels and use the left and right directional buttons move to between programmes within a channel. You can also use the $\binom{123}{123}$ button to enter a channel number and go to that channel directly. You can use the $\overbrace{123}$ button to go to the current time.

When you move the focus to a programme, you will hear the detailed information about the selected programme. You will also hear if the Audio Description and Subtitles are available for the programme. When you move the focus to a different channel, you will hear the channel name and number, and the programme details. If you move to a different day, you will hear the day announced for the first programme you reach on that day. The day is not repeated, so if you are not sure what the day is, you can move forwards and backwards 24 hours and then the day will be announced.

To view a programme on now

In the **Guide**, move to the programme currently broadcasting, and then press the Select button to go to live TV on the selected channel and programme.

Other options in the guide

In the **Guide**, move to a broadcast scheduled programme, and then press the Select button. A pop-up menu listing the functions below appears. For the programme you are currently watching, press and hold the Select button.

Use the up and down directional buttons to move within this menu, and then press Select to choose an item. Press **6** to close the menu and go back to the **Guide**.

• Record

You can record the programme that you are currently watching or a programme on another channel.

This function may not be supported depending on the model or geographical area.

• Schedule Viewing

You can schedule viewing for a broadcast scheduled programme.

• Schedule Recording

You can schedule recording for a broadcast scheduled programme.

- 🖉 This function may not be supported depending on the model or geographical area.
- For more information on Schedule Recording, refer to "<u>Recording</u>".

• Edit Recording Time

You can change the start and end times of scheduled programme recordings.

- 🖉 This function may not be supported depending on the model or geographical area.
- Stop

You can stop the recording function that is currently running.

• Cancel Scheduled Viewing / Cancel Scheduled Recording

You can cancel your scheduled viewings and recordings.

- 🖉 \sim This function may not be supported depending on the model or geographical area.
- View Details

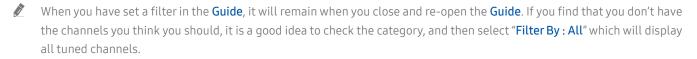
You can see the detailed information on the selected programme. The information may differ with the broadcast signal. If the information is not provided with the programme, nothing appears.

Press Select on the View Details option. This will open the Details pop-up window for that programme which will display a synopsis. The details pop-up window consists of detailed information and the OK option. After reading the detailed information, press the Select button on the remote control to close the pop-up window.

Displaying your favourite channels:

If you have set up favourite channels, you will be able to filter the **Guide** so that only those channels are shown. This makes it easier to find channels you want.

To display your favourites list, move to the current time (press the **D** button) and then press the left directional button to move to the list of channels. Use the up directional button to move up the list until you reach the Filter By : All option. Press Select to bring up a list of options. Use the up and down directional buttons to move between the categories in the list. Highlight the option you want, for example, Favourites 1, and then press Select. The Guide will then show the information for only those channels.



Setting Up a Schedule Viewing

Configure the TV to show a specific channel or programme at a specific time and date.

The () icon appears next to programmes that have been configured for a schedule viewing.

To set up a schedule viewing, you must first set the TV's clock (Settings > General > System Manager > Time > Clock).

Setting up a schedule viewing

• The Guide Screen

On the **Guide** screen, select a programme you would like to view, and then press and hold the Select button. Select **Schedule Viewing** on the pop-up menu that appears.

• The Programme Info Screen

Press the Select button while watching the TV. The Programme Info window appears. Select a broadcast scheduled programme by using the left or right directional buttons, and then the Select button. You can schedule watching the programme by selecting Schedule Viewing.

Cancelling a scheduled viewing

You have two ways to cancel a scheduled viewing.

1. Cancelling a scheduled viewing from the Guide

Live TV > Guide

Move to the programme for which you want to cancel scheduled viewing, and press the Select button. Move to **Cancel Scheduled Viewing**, and then press the Select button. When a pop-up message asking you to cancel the selected schedule viewing appears, select **Yes**. The selected scheduled viewing is cancelled and the screen returns to the **Guide** screen.

2. Cancelling a scheduled viewing from Smart Hub

Live TV > Schedule Manager or Recordings > Schedules > Delete

- 1. Press (a) the button to open Smart Hub, and then press the left or right directional button to move to Live TV. Press the up directional button to move to the top row, and then press the left or right directional button to move to Schedule Manager or Recordings.
- 2. Press Select to open Schedule Manager or Recordings.
- 3. Press the up directional button to move to the Schedules menu.
- 4. Use the down directional button to move to the list of programmes scheduled to view.
- 5. Use the right directional button to move to the **Delete** option, and then press the Select button to delete the selected item.
- 🧷 The menus may not appear depending on the model or geographical area.

Using the Channel List

See how to list the channels available on your TV.

> Live TV > Channel List

Using Channel List, you can change the channel or check programmes on other digital channels while watching TV.

Press the for button. The Home Screen appears. Use the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the right directional button to move to Channel List, and then press the Select button. This shows a list of the channels and the programme currently on. The focus will be on the channel you are currently watching, showing channel name, channel number, and programme title.

Use the up and down directional buttons to move within the channel list (or use the CH button to go up and down a page at a time). You can also use the 123 button to enter a channel number and go to that channel directly.

Press the right directional button in the Channel List to move to the Category list. Use the up and down directional buttons to move within this list. Press the Select button to choose a category you want from the Category list. The Category list contains All Channels and Favourites. Use the up and down directional buttons to move to a channel you want to view, and then press the Select button.

• All

Displays the channels that have been automatically searched.

• TV PLUS

While the TV is connected to the Internet, you can watch popular programmes or highlights for each theme through a virtual channel at any time. As in a general channel, it provides the daily programme schedules of TV PLUS.

This function may not be supported depending on the model or geographical area.

• Favourites

Displays Favourites 1 to Favourites 5. Use the up and down directional buttons to move between the lists of favourites. Highlight the one you want, and then press Select. The channel list will now show only the channels in this list.

• Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

• Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

• Terrestrial, Cable, or Satellite

Allows you to choose between Terrestrial, Cable, and Satellite.

This function may not be supported depending on the model or geographical area.

Creating a Personal Favourites List

Designate frequently watched channels as favourite channels.

Favourite channels are highlighted in the Edit Channel and Channel List screens with the symbol .

Registering channels as favourites

> Live TV > Channel List

- 1. Press the right directional button to move to the Category list.
- 2. Select Favourites.
- 3. When you select a favourites list, the Edit Favourites screen appears.
- 4. Move to the channel you want to add, and then press the Select button.
- 5. Repeat Step 4 to select all the channels you want to add.
- 6. Press the right directional button to move to the ∑ icon, and then press the Select button. The selected channels are added to the favourites list.

To add channels to a favourites list - Detail

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to Favourites, and then press Select. You will see Favourites 1 to Favourites 5. Move to the list to which you want to add channels, and then press the Select button.
- 4. Use the up directional button to move to Edit Favourites, and then press the Select button.
- 5. In the Edit Favourites screen, move to a channel you want to add to the favourites list, and then press the Select button.
- 6. Repeat Step 5 to select all channels you want to add.
- 7. Press the right directional button to move to the ∑ icon, and then press the Select button. The selected channels are added to the favourites list.

Deleting channels from a favourites list – Detail

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to Favourites, and then press Select. You will see Favourites 1 to Favourites 5. Move to the list from which you want to delete channels, and then press the Select button.
- 4. Use the up directional button to move to Edit Favourites, and then press the Select button.
- 5. In the Edit Favourites screen, move to a channel you want to delete from the favourites list, and then press the Select button.
- 6. Repeat Step 5 to select all channels you want to delete.
- 7. Press the left directional button to move to the 🖾 icon, and then press the Select button. The selected channels are deleted from the favourites list.

Viewing and selecting channels on favourites lists only

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to Favourites, and press the Select button.
- 4. The Favourites 1 to Favourites 5 appear. Move to the list you want, and then press the Select button. The channels in the selected favourites list appear.

Recording

Recording a programme to an external hard drive connected via USB.

- 🖉 This function may not be supported depending on the model or geographical area.
- Read all precautions before using the recording feature. For more information, refer to "Before Using the Recording and <u>Timeshift Functions</u>".

Using the instant and schedule recording options from the guide screen:

To record a programme that is on now, open the programme guide, move to the programme, and then press and hold the Select button. You will get a pop-up menu. Use the up and down directional buttons to move to **Record**. Press select to record the programme. You will be returned to the programme guide. Recording automatically ends at the time when the programme ends.

To stop recording, move to **Guide**, and then press the Select button. The **Stop Recording** popup window appears. Move the focus to **Stop**, and then press the Select button.

To record a programme that is on later, move to the required programme in the **Guide**, and press select. You will get a pop-up menu. Use the up and down directional button to move within this menu. Move to the **Schedule Recording**, and press Select. You will hear a message saying the programme has been set to record and then you will return to the programme guide.

The () icon is placed visually against the programme title to show it is set to record. To find out if a programme is set to record or to cancel a scheduled recording press select on the programme. If it is already set to record then the option on the menu will be **Cancel Scheduled Recording**. You can press Select button to cancel the scheduled recording or just press button to go back to the programme guide without cancelling the recording.

Using the Instant and Schedule Recording options from the programme info window

Recording the programme you are watching

To display a menu for recording a programme or starting the Timeshift function, press the 🔞 or 🚥 button and then press the Select button while watching the programme. You can select the following functions on the menu:

- **Record**: Immediately starts to record the programme you are watching.
- Timeshift: Starts the Timeshift function.
- Stop: Stops the recording or the Timeshift function that is running.
- Info: Displays the details about the programme you ware watching.

Scheduling viewing from the programme info window

Press the Select button while viewing a programme to display the programme info window. In the programme info window, use the left and right directional buttons to select a broadcast scheduled programme, and then press the Select button. To schedule a recording for the programme, select **Schedule Recording**.

Changing the recording time

When recording a live programme you can specify how long you want to record for.

Press the down directional button to display the control bar at the bottom. Press the left or right directional buttons to move to Edit Recording Time, and then press the Select button. A slider scale appears and you will hear the recording time currently set. Use the left and right directional buttons to change the time, and then press the Select button. You will hear a menu that gives information about the recording time. To return to the programme you are watching, press the Select button on the remote.

🖉 The maximum recording time differs depending on the capacity of the USB device.

Viewing recorded programmes

Live TV > Schedule Manager or Recordings > Record

Open the Smart Hub by pressing the button on the remote control. Use the left or right directional button to move the focus to Live TV. Press the up directional button to move to the top row, and then use the left or right directional button to move to Guide.

Press the right directional button to move to **Recordings** and press select. This will open the **Recording & Schedule Manager** screen.

To play a programme use the up and down directional buttons to move between programme titles and then you can press select to play the programme or press the right directional button to move to a list of options. Use the up and down directional buttons to move between the options in this list to play the programme, remove (or delete) it or view the programme details.

Select the **Play** option to play the programme. The programme will start. If you have watched part of this programme before, you will get a pop-up menu on screen allowing you to **Play** (from start), **Resume** (from where you left off) or **Cancel**. Use the left and right directional buttons to move to the required option and press select.

🖉 This function may not be supported depending on the model or geographical area.

Deleting a recorded programme

To delete a recorded programme go to the list of **Recordings**. Use the up and down directional buttons to move to the recording you want to delete.

Press the right directional button to move to a list of 3 options. Press the down directional button to move to the **Delete** option and press select.

You will be asked if you want to remove the selected item. Press the left directional button to move to the **Delete** button and press select to delete the programme title. The programme will be deleted and you will return to the list of **Recordings**.

Using Smart Hub

Learn how to open Smart Hub to access apps, games, movies, and more.

Smart Hub

After pressing the f button on your remote control, you can surf the web and download apps with Smart Hub.

- Some Smart Hub services are for pay services.
- 🖉 To use Smart Hub, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language, or geographical area.
- Smart Hub service outages can be caused by disruptions in your Internet service.
- To use Smart Hub, you must agree to the Smart Hub service agreement, and collection and use of personal information.
 Without giving consent, you cannot use the additional features and services. You can view the entire text of the Terms & Policy document by navigating to > Stettings > Support > Terms & Policy.
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement though it is a required one, select Reset Smart Hub (Settings > Support > Self Diagnosis > Reset Smart Hub).

Press the focus to Live TV or another item on the bottom row. The options on the top row change depending on the item selected in the bottom row.

The buttons to the right of Live TV provide quick access to apps such as Netflix and Amazon. Currently, many of these apps are not accessible with Voice Guide.

Use the left and right directional buttons to move between a menu or apps on a row and the up and down directional buttons to move between rows. Press Select to access a menu or apps.

When you open **Smart Hub**, move the focus to **Live TV** or **TV PLUS**. Press the up directional button to move to the top row. You will be on the **Guide** item. The items in this row are:

- Guide: Select to go to the screen where you can view the programme guide to multiple channels.
- Channel List: Select to open the channel list to view and move to programmes that are being broadcast on other channels.
- Schedule Manager or Recordings: You can go to the Schedule Manager or Recording & Schedule Manager screen.

🖉 The menus may not appear depending on the model or geographical area.

- To the right of Schedule Manager or Recordings, you can see the programmes you viewed most recently and the programmes that are currently broadcasting on other channels. To go to one of those channels, move to it, and then press the Select button.
 - 🖉 The menus may not appear depending on the model or geographical area.

Using the Home Screen in Smart Hub

At the leftmost part of the Home Screen in Smart Hub is the static menu listed below. You can quickly and easily use the listed menu items to access the main TV settings or external devices, search, and apps.

• **Q** Notification

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

If you move the focus to **Notification**, and then press the Select button, a notification window appears on the right and the following functions are available:

- 🔟 Delete All: You can delete all your notifications.
- Settings: You can select services you want to be notified about. When you select Allow sound, notifications are displayed with a notification sound.

• 🚯 Settings

When the focus is moved to the 🛱 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

- Picture Mode

You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select Picture Setup.

Sound Mode

You can select a sound mode to optimise your listening experience. To change the sound mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Equaliser Setup**.

- Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select 3 Speaker List.

Connecting to a Bluetooth speaker may not be supported depending on the model or geographical area.

– Game Mode

You can enable game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation[™] or Xbox[™]. To turn Game Mode on or off, press the Select button. To set the detailed options, press the up directional button, and then select Go to Game Mode Settings.

– Audio Language

You can change the audio language you want to hear. To make fine adjustments, press the up directional button, and then select **Go to Audio Options**.

Subtitle

You can watch TV broadcasts with subtitles. To activate/deactivate the **Subtitle** function, press the Select button. To run **Accessibility Shortcuts**, press the up directional button, and then select **Accessibility Shortcuts**.

– Sleep Timer

You can automatically shut off the TV after a pre-set period of time.

To set the sleep time to up to 180 minutes, press the select button. To make detail off timer, press the up directional button, and then select **Set Up Off Timer**.

- 🖉 This function may not be supported depending on the model or geographical area.
- Network

You can view the current network and Internet status. Press the up directional button, and then select Network Status or Network Settings.

This function may not be supported depending on the model or geographical area.

● **→** Source

You can select an external device connected to the TV.

- For more information, refer to "<u>Switching between external devices connected to the TV</u>".
- Q Search

A Virtual keyboard appears on the screen, and you can search for channels, programmes, titles of movies, or apps provided by the Smart Hub service.

- To use this feature, the TV must be connected to the Internet.
- 88 APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- 🖉 To use this feature, the TV must be connected to the Internet.
- For more information, refer to "<u>Using the Apps Service</u>".

• 📀 Ambient mode

In Ambient mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient mode, press the 🔯 button. To return to the TV mode, press the 🍙 button. To shut off the TV, press the 🕐 button.

If you press the 🖾 button when the TV is turned off, the TV turns on in Ambient mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient mode.
- 🖉 Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the Ambient mode, refer to "Using the Ambient mode".

• 📃 Universal Guide

Universal Guide is an app that allows you to search for and enjoy various content such as TV shows, dramas, and movies in one place. Universal Guide can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the **Universal Guide**, refer to "<u>Using the Universal Guide App</u>".
- otin M Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

• 📿 Art

When you are not watching TV or when the TV is turned off, you can use the Art mode function to edit image content such as artworks or photos or to display the content.

- This function is supported only in THE FRAME model.
- For more information, refer to the provided user manual.

Launching the e-Manual

Open the user manual embedded in your TV.

Press the E-MANUAL button on the standard remote control to open the menu. Alternatively, press the method button to open Smart Hub, press the left directional button to move to 🕸 Settings, and then press the Select button.

Use the up and down directional buttons to move to Support, and then select Open e-Manual to open the e-Manual.

You can view the embedded e-Manual containing information about your TV's key features.

- 🖉 Alternatively, you can download a copy of the e-Manual from Samsung's website.
- 🖉 Words in blue (e.g., **Picture Mode**) indicate a menu item.

The e-Manual contains 2 rows of menu icons. Use the up and down directional buttons to move between rows and the left and right directional buttons to move within a row. Press Select to open the section you want to read.

The e-Manual contains a section called "Learn TV Remote" in the Accessibility Guidance (at the right corner of the screen). This is particularly useful for people who cannot easily see the buttons on the control or who are not clear what each button does. When you are viewing this section of the e-Manual, pressing the buttons on the remote control will not affect the TV. Note that the "Accessibility Guidance" item is only available when Voice Guide (> Settings > General > Accessibility > Voice Guide Settings > Voice Guide) is enabled.

Using Voice Interaction

A guide to using Voice Interaction to control your TV.

To use **Voice Interaction**, your TV must be connected to the Internet and you must use the microphone on your Samsung Smart Remote.

To use Voice Interaction, press and hold the \bigcirc button on the Samsung Smart Remote, say a command into the microphone on the remote, and then release the button to run Voice Interaction.



Running Voice Interaction

Press and hold the 🕖 button on the Samsung Smart Remote. Say a command, and then release the button. The TV provides feedback on how it understands the command, and then performs the commanded task.

- 🖉 If the TV does not understand the command, try again with more precise pronunciation.
- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 The supported language may differ depending on the geographical area.
- You can find a detailed description of the voice commands at Voice Command Guide. Press the button. The Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.